2003 Occupational Santa Clara County



A Product of:

The California Cooperative Occupational Information System (CCOIS) (www.calmis.ca.gov)

Sponsored by:

NOVA (www.novaworks.org)

The California Employment Development Department (EDD) (www.edd.ca.gov)

The California Career Resource Network (CalCRN) (www.californiacareers.info)

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Overview

The Santa Clara Occupational Outlook Report (OOR) is produced as part of a state-wide project called the California Cooperative Occupational Information System (CCOIS). The program is a cooperative effort between NOVA and the State of California Employment Development Department (EDD), Labor Market Information Division (LMID). It is an annual study conducted to improve the match between the labor needs of employers and the skills of job seekers by providing current, localized occupational information. Funding for this study is provided by EDD and NOVA.

NOVA

For 20 years, NOVA (www.novaworks.org) has built opportunities for workforce development in Silicon Valley. As a primary administrator of local employment and training funds, and an organization established to coordinate private and public efforts in that area, NOVA is in an ideal position to act as the coordinator of the local portion of the California Cooperative Occupational Information System.

NOVA was created under the Federal Job Training Partnership Act, which was replaced in 1998 by the Workforce Investment Act (WIA). The NOVA Workforce Board, representing a substantial mix of companies, organizations, and communities in Silicon Valley, directs NOVA in offering a wide range of services to both job seekers and businesses.

The services provided by NOVA benefit both businesses and job seekers. Businesses can receive assistance with their hiring, retraining or outplacement needs through the CONNECT! Business Service Center. CONNECT! is a collaborative of about 30 partner agencies, including NOVA, that expands access to workforce services and provides all clients with a seamless one-stop system. Job seekers may receive vocational testing and counseling as well as assistance in obtaining the competitive skills necessary to enter the workforce at the CONNECT! Job Seeker Center. NOVA services go well beyond WIA and include such things as special projects for employee retraining, veterans, youth, and other new entrants to the workforce. The NOVA

Workforce Publications unit, in addition to completing the yearly CCOIS project, also completes a variety of industry-specific reports and special research projects as determined by funding and the Board.

Labor Market Information Division (LMID)

The CCOIS project is administered by LMID to encourage state and local cooperation in gathering, analyzing and distributing occupational information. LMID has access to an extensive state database from which to provide information and projections concerning local labor market conditions. LMID's expertise, technical assistance and database have all been made available to NOVA and, through this publication, are now being made available to you. The Project Methodology section describes the various tasks of NOVA and LMID in the survey process.

Uses of the Data

The data in this publication has been gathered, analyzed, and is distributed with the intention of being used by a variety of organizations and individuals for many different purposes. Some of the most important uses are listed below.

Career Decisions: The Occupational Tables have been specifically designed for use by career counselors and job seekers to provide easy-to-read local information on 25 occupations. The localized information includes employer requirements and preferences, wages, and labor supply and demand. It may help career counselors and job seekers make informed occupational choices based on skills, abilities, interests, education, and personal needs. In the "Description of Occupational Outlook Tables," each section of the table is defined. It is hoped that this format will make it easier for career counselors to use this data effectively when working with clients.

Placement and Job Development: When job counselors and job developers are looking for appropriate placements for clients, the Occupational Outlook Tables can be of help. Supply and demand information is provided to assist job seekers in making a decision as to whether a particular occupation is appropriate for their skills, abilities, education, and needs. The

Introduction

information may help the counselor and job seeker assess the job market and become more aware of the job skills which Santa Clara County employers rate as important for entry into the occupation. The information provided under the title "Where the Jobs Are" can guide the job seeker toward industries which are the largest sources of employment for that occupation.

Vocational Program Planning: The report provides local planners and administrators with employment data including occupational size and expected growth rates. Program planners can use this data to evaluate, improve, and eliminate programs, or to plan new programs. The Occupational Tables provide local planners with supply and demand, occupational size, and expected growth rate information. This section summarizes data collected from state tax records as well as a federal occupational survey and information collected directly from local employers. Multi-source information makes it possible to make more confident judgments concerning the suitability of occupations for training.

Economic Development: Local government agencies and economic development organizations will find information on the labor pool, such as occupational size, expected growth rates, and wages, which is useful in determining the potential for business growth and development in the Santa Clara County labor market area. Information on supply and demand, occupational size, growth rates, and wages and benefits can be used in establishing the suitability of Santa Clara County for specific types of business growth and development.

Curriculum Design and Program Marketing: Training providers can assess and update their curriculum based on current employer needs and projected trends as indicated in this report. They can also effectively market their programs by informing students, employers, and others that the chances for job placements are much greater because their programs are developed using reliable local information.

Human Resource Management: Both small business owners and large corporate human resource directors can use this report to determine competitive wages and benefits, improve their recruitment methods, and assess the availability of qualified workers for business relocation or expansion purposes.

It is hoped that this publication will meet the needs of its users. If you have any suggestions for improvement, please contact the NOVA Workforce Publications Team at (408) 730-7232 or email publications@novaworks.org

Labor Market Information Division developed Projections specifically for Santa Clara County. These tables provide 2001 employment information by occupation, projected over a seven-year growth period. Separation figures and occupational distribution by industry are also provided.

These tables contain information on over 400 occupations. They are generated using state unemployment insurance records of Santa Clara County businesses as well as the federally financed Occupational Employment Statistics (OES) survey of occupational distribution. Each occupation is identified according to North American Industrial Classification System (NAICS) titles. The tables are an invaluable addition to the in-depth information provided in the OOR.

Occupational Selection Criteria

NOVA applied the following criteria to narrow the list of possible survey occupations to 25:

- The occupation must have a substantial employment base in the county;
- There must be a substantial number of project ed job openings in the county;
- There appears to be present and future occupational growth;
- There appears to be a substantial potential for earning capacity;
- The training time required for the occupation must be two years or less, allowing for some exceptions based on the strength of the other criteria;
- The skills requirements are impacted by some fluctuation in the labor market or emerging technology.

Survey Sample Selection

A preliminary list of occupations was developed. This list was reviewed by representatives from community-based vocational training programs, educa-

tional institutions, organized labor, economic development organizations, and the Workforce Board. From the input of these organizations, some occupations were eliminated and others added. A final list of occupations was then selected. Based on the final sample, LMID developed an employer sample for each occupation. When drawing up the employer sample, the pattern of distribution of industries was considered. Industries are classified by the NAICS. There are nine major industry groups, including:

- Agriculture, forestry, and fishing
- Mining
- Construction
- Manufacturing
- Transportation, communications, electric, gas, and sanitary services
- Wholesale trade
- Retail trade
- Finance, insurance, and real estate
- Public administration

LMID staff, using detailed databases on employers and occupational staffing within industries, chose a representative sample of employers for each of the occupations. For example, a medical assistant would generally work for a firm classified in the health services category, whereas a word processor may be scattered across several industries —health services, retail trade, manufacturing, etc. This was considered for each occupation when establishing the sample of employers that would be contacted. If 20 percent of Santa Clara County workers in an occupation were found in a specific industry, then 20 percent of the sample was drawn from that industry.

The sample was carefully reviewed, and employers were called to verify company name and address, confirm the existence of the occupation at the company, and obtain the name of a contact person. Employers were added to the sample or deleted as appropriate. The final sample included up to 40 employers for each occupation.

Methodology

Questionnaire Development

The same questions were asked for each of the 25 occupations (see Appendix F for a sample). Since the standard questionnaire did not contain a skills question, NOVA obtained that information from O*NET and CCOIS.

O*NET, the Occupational Information Network, is a comprehensive database of worker attributes and job characteristics. As the replacement for the Dictionary of Occupational Titles (DOT), O*NET serves as the nation's primary source of occupational information.

This accessible resource supports public and private sector efforts to identify and develop the skills of the American workforce. It provides a common language for defining and describing occupations. Its flexible design also enables it to rapidly adapt to changing job requirements. In addition, it offers the essential foundation for facilitating career counseling, education, employment, and training activities. The database contains information about knowledge, skills, abilities, interests, general work activities, and work context. O*NET data and structure will also link related occupational, educational, and labor market information databases to the system.

Data Collection

Employers were contacted by phone and were given the opportunity to respond to the questionnaire at that time, or to return it by FAX or mail. Data collection began in June 2003 and was completed in November 2003. Additional employers were added to the original sample as necessary to ensure meeting a 50% response rate and to survey 40% of the sample's projected employment size.

All surveys were reviewed for accuracy of the data, and employers were re-contacted if answers were missing, unclear or conflicted with other data. In addition to contacting employers, NOVA staff, when necessary, contacted labor unions, employment agencies, and training providers to learn more about a specific occupation.

Tabulation: The survey responses were entered into a database and tabulations were prepared. From these tabulations, the data was analyzed and the final occupational summary reports were prepared by NOVA staff. Each occupational table provides information on training and hiring require-

ments, size of the occupation and expected growth rate, supply and demand assessment, major employment sources, and other information. Specific employer information is confidential and cannot be released.

Disclaimers

The wages included in this report are those paid by the employers participating in the survey for employees at three levels of experience. The report does not include extreme wages.

Please note that percentages may not add up to 100 in the Occupational Tables due to rounding.

The Employment Development Department (EDD) does not endorse the schools listed in the California Training and Education Providers (CTEP) Directory. Please note that training programs may change frequently and we recommend contacting the schools to verify the information listed in the profile.

Overview

The Occupational Tables (pages 1-52) present a summary of the project's findings by occupation. A separate table is presented for each of the 25 occupations for which surveys were completed. Major sections of each table include:

- Occupational Title and SOC Code Occupational Definition
- Wages & Benefits
 - Wages
 - Benefits
 - Hours Worked
 - Shifts
- Employer Requirements
 - Education
 - Training & Experience
 - Skills, legally mandated requirements, and other requirements
- Projections
 - Forecast Levels
 - Employment Levels
 - Past 12 months
 - Next 24 months
- Supply & Demand
 - Difficulty in Finding Applicants
 - Recruitment Methods
 - Turnover
- Where the Jobs Are
- Size of Occupation
 - Range
 - Gender

The following is a brief description of each section of the tables, definitions of terms relevant to the specific sections, and suggestions concerning how the information can be used effectively.

Occupations are listed alphabetically by their SOC titles.

Wages & Benefits

Wages

Wage data serves as a guide for comparing salaries of one occupation to those of another. The information helps ascertain the exact calculated salary ranges and median wages for each occupation. Where applicable, this information is provided for both union and non-union employees. All wages reflect responses given by employers surveyed.

Please note that this data is not meant to represent official prevailing wages and should be used (if at all) with caution for wage and salary administration. Wages are reported for three occupational levels as follows:

- New Hires Wages generally paid to persons trained or qualified but with little or no paid experience in the occupation.
- New Hires Who Are Experienced –
 Starting wage generally paid to journey-level or experienced persons who are just starting at the firm.
- Experienced Employees (3 or more years with the firm) – Wages generally paid to individuals with three years or more experience at the firm in that occupation.

Note: Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

Benefits

The benefits section identifies what percentage of the employers surveyed offer benefits to employees (both full-time and part-time where applicable) in the occupation. This section also indicates who pays for the benefits (e.g. employer pays all, employee pays all or both share the cost).

Hours Worked

This section identifies typical working hours of employees in the occupation. More specifically, it shows how many hours per week an employee works on average.

Shifts Worked

This section identifies what shift the employees work in a given occupation (day, swing or graveyard).

Employer Requirements Education

This section identifies the minimum level of formal education that firms require when hiring a candidate into the specific occupation. While minimum educational requirements have been shown as employers expressed them, these educational requirements are not always essential for the performance of job duties. Because the lack of education will create a barrier with some employers, employer's educational statements have been included in this report.

Training & Experience

Training: Generally refers to training as provided by Regional Occupational Programs, adult education, private vocational schools, state approved apprenticeship programs and community college training programs. Some occupations have legal or voluntary licensing, registration, or certification requirements which stipulate training or proficiency tests. Details are provided where applicable.

It should be noted that just meeting employer requirements may not be sufficient for employment. Often, the difference between obtaining employment for an inexperienced person is completion of the preferred levels of education and training. This is particularly true in occupations where supply exceeds demand and the inexperienced are competing with the experienced.

Experience: The type and amount of experience required by employers and areas in which employers look for experience is noted in this section. If training is an acceptable substitute for work experience, that is also noted.

This section provides a good indication of the degree of competition for jobs in the occupation. The more experience an employer requires, the stronger the competition and the harder it will be to enter the occupation with the proper qualifications but no experience.

Skills & Other Requirements

This section provides a summary of employer requirements and preferences in relation to the occupation. It is divided into three categories: Skills, Related Occupations, and Tasks. Refer to the Project Methodology: Questionnaire Development for skills source information.

Note: With the passage of the Americans With Disabilities Act in 1990, employers must determine the "essential functions" of a position. The designation of a skill as "very important" or "important" is based upon employer preference. These terms are in no way meant to determine which skills are "essential functions" of the position. Employers will have to make that designation for each occupation at their firm. It is also important to note that although employers report their preferences as to physical skills, the Act also states that "reasonable accommodation" must be made for applicants and employees who have a disability. For more information about the Americans With Disabilities Act, contact NOVA at (408) 730-7232.

Projections

This is a relative term relating to the rate of growth projected for the occupation from 2001–2008 in Santa Clara County. Provided by EDD/LMID, these projections are evaluated against data collected from employers, and from trade associations, schools and industry analysis to provide a reasonable estimate of growth potential.

Projections are generally the numbers that are most relied upon to provide an indication of whether an occupation is expected to have high demand for new employment. Although it is a good starting point, other factors, such as separations included in some LMID tables, should be considered in attempting to determine the availability of job opportunities in an occupation.

The average projected growth for Santa Clara County is 7.6% during the seven year period of 2001–2008. Ranges have been established around the 7.6% average as follows:

 Much Faster = 11.4% and above than Average

Faster than Average = 8.4% - 11.3%
 Average = 6.8% - 8.3%
 Slower than Average = 0.8% - 6.7%

Remain Stable = no significant change
 Decline = negative percentage

Growth data can help determine if an occupation is likely to provide increasing or decreasing job opportunities in the future. Even in growing occupations however, the supply of qualified people could exceed

the demand for a variety of reasons, including small occupational size, large numbers of people who already meet the occupational requirements, and/or large numbers of people being trained for that occupation.

Employment Levels Past 12 Months Next 24 Months

This chart reports how employers responded when asked whether employment in an occupation declined, remained stable, or grew during the last 12 months. Employers also responded as to whether they expect employment in an occupation to decline, remain stable or grow over the next 24 months.

Note: Please note that the sum of rows may not equal 100 percent due to rounding.

Supply & Demand Difficulty in Finding Applicants

Information in this section reports the level of difficulty employers have finding both inexperienced as well as fully experienced and qualified applicants. The terms used to describe the levels of difficulty employers have finding candidates are as follows:

Not Difficult—Supply of qualified applicants is considerably greater than demand, creating a very competitive job market for applicants.

Moderately Difficult—Demand is somewhat greater than the supply of qualified applicants. Employers may have some difficulty finding qualified applicants. Qualified applicants encounter little competition in their job search.

Very Difficult—Demand is considerably greater than supply of qualified applicants. Employers often cannot find qualified applicants when an opening exists. Qualified applicants encounter no competition in their job search.

Overall, this section provides the best current indication on the degree of ease or difficulty for a job seeker to obtain employment in the occupation. The information is not absolute, and it can change over time, but it provides a good tool in selecting an occupation for employment in the immediate future. Other factors, such as size of the occupation, projected growth, and separations (discussed in

employment trends), should also be taken into consideration when deciding on the suitability of an occupation. In most cases, the most desirable occupations requiring the least training will be difficult to enter. Occupations that are easy to enter may have elements that are not attractive to the job seeker. Sometimes starting in an occupation considered less desirable will provide the job seeker with the experience required to enter a more desirable occupation at a later time.

Recruitment Methods

This section lists the top recruiting methods the surveyed employers use when recruiting for the occupations.

Turnover

A comparison of the total number of employees in the occupation to vacancies filled resulting from promotions and employees leaving the firm in the past 12 months. For most occupations, more openings are the result of workers leaving the labor force (attrition) or changing occupations than of industry growth. Replacement openings are most numerous in occupations with relatively low training. The formula used to calculate annual turnover percentage is as follows:

| # of promotions | + | # of employees leaving firm |
|------------------------------------------|---|--------------------------------|
| total # of employees in occupation | - | # of new positions |

Where The Jobs Are

This section provides a list of types of industries which are the largest sources of employment for the occupation in Santa Clara County. The titles are from the Standard Industrial Classification system, as used in the 2001–2008 Occupational Forecast Tables (Appendix D). This information is helpful to job seekers and job developers by identifying industries most likely to provide employment in the occupation. It is often recommended that job seekers contact employers within major employing industries in order to get more specific information for career planning.

Size of Occupation

Range

This is a relative term assigned to the number of people employed in the occupation as reported in "Annual Average 2001" from LMID. The designation is different for each county and is based on the size of the work force in the county.

The range categories for Santa Clara County are converted to the relative terms based on the following table:

Small = 1,524 or less
 Medium = 1,525 - 3,049
 Large = 3,050 - 6,607
 Very Large = 6,608 or more

The size of the occupation is important because it influences the availability of jobs. For instance, an occupation that is growing very slowly but is also very large could still be a good source of employment. Conversely, an occupation that is growing rapidly but is small in size may not provide good job opportunities at this time for significant numbers of people.

Gender

This section gives a percent breakdown of gender distribution in the particular occupation. It is stated as a percentage of the employees represented.

Training Providers

Appendix B provides a list of the Training Providers for each occupation.

Appendix C lists the Training Providers in alphabetical order with detailed information on the address and phone number. Appendix B can be used as a cross reference with Appendix A.

occupational tables

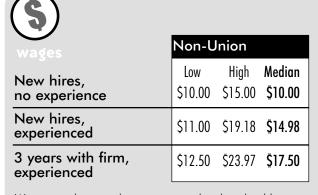
Bill and Account Collectors

SOC 43-3011

Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; keeping records of collection and status of accounts.

15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 40% | 60% | 0% |
| Dental | 33% | 60% | 0% |
| Vision | 27% | 47% | 0% |
| Life | 47% | 27% | 0% |
| Sick Leave | 87% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 13% | 73% | 0% |
| Child Care | 13% | 0% | 0% |
| Other | 0% | 0% | 0% |



hours worked per week (avg.)

Full Time
41
Hrs.

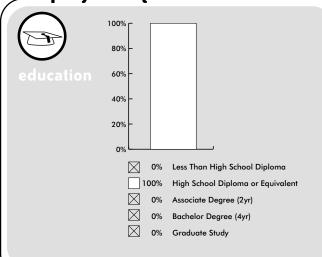
work shifts



Day 100% Swing

NIAL Danisinad

employer requirements



experience.

training & experience

| | res | No | but Preferred |
|---------------------------------------------|-------------|------------|--------------------|
| Previous experience required | 40% | 27% | 33% |
| Previous experi | ience requi | red: 16 ma | os. on average |
| Training as a substitute for experien | | 55% | 0% |
| 3 mos. of train | ning on ave | rage can b | oe substituted for |

Bill and Account Collectors

skills & other requirements



Speaking Active Listening Social Perceptiveness Writing Persuasion Readina Comprehension

Word Processing Spreadsheet Database Peachtree Act

| 13-1023.00 | Purchasing Agents, Except Wholesale, Retail, and Farm Products |
|------------|----------------------------------------------------------------|
| 13-1031.02 | Insurance Adjusters, Examiners, and Investigators |
| 13-1041.02 | Licensing Examiners and Inspectors |
| 43-4041.02 | Credit Checkers |
| 43-4051.01 | Adjustment Clerks |

- Mails form letters to customers to encourage payment of delinquent accounts.
- Persuades customer to pay amount due on credit account, damage claim, or nonpayable check, or negotiates extension of credit.
- Notifies credit department, order merchandise repossession or service dis-

connection, or turns over account to attorney if customer fails to respond.

- Receives payments and posts amount paid to customer account, using computer or paper records.
- Records information about financial status of customer and status of collection efforts.
- Confers with customer by telephone or in person to determine reason for overdue payment and review terms of sales, service, or credit co tract.
- Traces delinquent customer to new address by inquiring at post office or questioning neighbors.
- Drives vehicle to visit customer, return merchandise to creditor, or deliver bills.



Fully experienced

& qualified

(difficulty in finding applicants)

| Not | Moderately | Very |
|-----------|------------|-----------|
| Difficult | Difficult | Difficult |
| | Χ | |
| | | |

Inexperienced X

Turnover = 31.5%(Annual percentage rate of job turnover)



- **Employee Referrals** 73%
- 60% Internet
- 60% Newspaper Ads
- 33% Walk-In Applicants
- 20% Other = Job Fairs, Signs

- Private Employment Agencies 13% 7% In-House Promotion or Transfer



- Accounting, Auditing, and Bookkeeping
- Computer and Data Processing Services
- Credit Reporting and Collection
- Credit Unions
- Electrical Goods
- Hospitals
- Offices of Physicians
- Personal Credit Institutions
- Professional and Commercial Equipment
- Radio, Television, and Computer Stores



Size as of 2001 = 1,730(medium)



M = 17%= 83%



The projected growth for the period of 2001–2008 for Bill and Account Collectors is 11.6% (much faster than average).



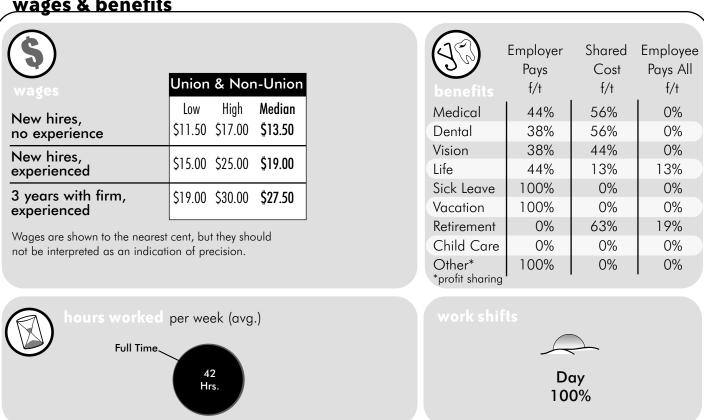
Actual and projected growth as stated by employers surveyed.

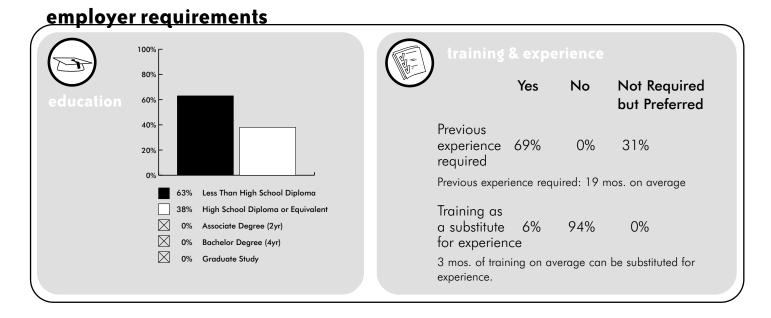
| | Decline | Kemain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 87% | 13% |
| Projected over the next 24 months | 0% | 100% | 0% |

Bus and Truck Mechanics and Diesel Engine Specialists

Diagnose, adjust, repair, or overhaul trucks, buses, and all types of diesel engines. Includes mechanics working primarily with automobile diesel engines. 16 firms responded

wages & benefits





skills & other requirements



Repairing Equipment Maintenance **Troubleshooting Equipment Selection** Installation **Quality Control Analysis** Operation and Control **Operation Monitoring**

| 49-2092.06 | Hand and Portable Power Tool Repairers |
|------------|----------------------------------------------------------|
| 49-3042.00 | Mobile Heavy Equipment Mechanics, Except Engines |
| 49-3051.00 | Motorboat Mechanics |
| 49-3052.00 | Motorcycle Mechanics |
| 49-3053.00 | Outdoor Power Equipment and Other Small Engine Mechanics |
| | |

- Inspects defective equipment and diagnoses malfunctions, using test instruments, such as motor analyzers, chassis charts, and pressure gauges.
- Inspects and verifies dimensions and clearances of parts to ensure conformance to factory specifications.

Χ

- Inspects, repairs, and maintains automotive and mechanical equipment and machinery, such as pumps and compres-
- Disassembles and overhauls internal combustion engines, pumps, generators, transmissions, clutches, and rear ends.
- · Reconditions and replaces parts, pistons, bearings, gears, and valves.
- Reads job orders and observes and listens to operating equipment to ensure conformance to specifications or to determine malfunctions.
- Attaches test instruments to equipment and reads dials and gauges to diagnose malfunctions.
- Adjusts brakes, aligns wheels, tightens bolts and screws, and reassembles equip-
- Changes oil, checks batteries, repairs tires and tubes, and lubricates equipment and machinery.
- Operates valve-grinding machine to grind and reset valves.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult Χ

Fully experienced & qualified

Inexperienced

Turnover - 17.1%

(Annual percentage rate of job turnover)



- **Employee Referrals** 75%
- 69% Newspaper Ads
- 38% Walk-In Applicants 25% Internet
- 13% Other = Signs
- Employment Development Department 6%
- Union Hall Referrals



- Automotive Rentals, No Drivers
- Elementary and Secondary Schools
- Local Government, Except Hospitals and Education
- Sanitary Services
- Trucking and Courier Services, Except by Air



Size as of 2001 = 1,320(small)



M = 100%



The projected growth for the period of 2001-2008 for Bus and Truck Mechanics and Diesel Engine Specialists is -0.8% (decline).



Actual and projected growth as stated by employers surveyed.

| | Decline | Kemain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 6% | 56% | 38% |
| Projected over the next 24 months | 0% | 69% | 31% |

Carpenters SOC 47-2031

Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways to control the proper circulation of air through the passageways and to the working places.

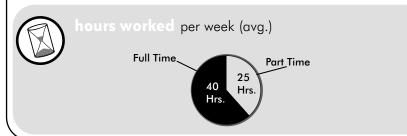
15 firms responded

wages & benefits



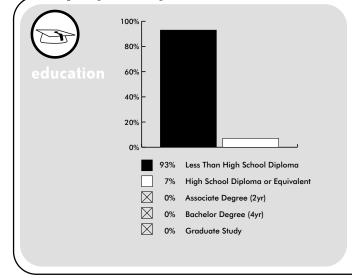
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

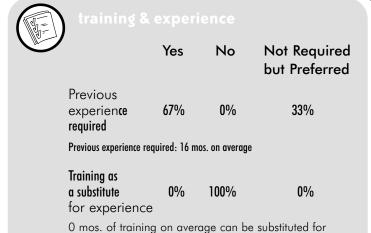
| (15) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 67% | 13% | 0% |
| Dental | 67% | 13% | 0% |
| Vision | 67% | 13% | 0% |
| Life | 60% | 13% | 0% |
| Sick Leave | 93% | 0% | 0% |
| Vacation | 93% | 0% | 0% |
| Retirement | 20% | 40% | 27% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day

<u>employer requirements</u>





experience.

skills & other requirements



Installation **Equipment Selection** Repairing Reading Comprehension Operation and Control **Mathematics**

47-2021.00 Brickmasons and Blockmasons 47-2031.02 Rough Carpenters 47-2031.03 Carpenter Assemblers and Repairers 47-2031.05 Boat Builders and Shipwrights 47-2152.02 **Plumbers** Helpers - Carpenters 47-3012.00

- Shapes or cuts materials to specified measurements, using hand tools, machines, or power saw.
- Assembles and fastens materials, using hand tools and wood screws, nails, dowel pins, or glue, to make framework or props.
- Builds or repairs cabinets, doors, frame- Fills cracks and other defects in plaster or works, floors, and other wooden fixtures used in buildings, using woodworking machines, carpenter's hand tools, and power tools.
- Installs structures and fixtures, such as windows, frames, floorings, and trim, or hardware, using carpenter's hand and • power tools.
- plasterboard and sands patch, using patching plaster, trowel, and sanding
- Finishes surfaces of woodworking or wallboard in houses and buildings, using paint, hand tools, and paneling.
 - Removes damaged or defective parts or sections of structure and repairs or replaces, using hand tools.
 - Measures and marks cutting lines on materials, using ruler, pencil, chalk, and marking gauge.
 - Verifies trueness of structure, using plumb bob and level.
 - Studies specifications in blueprints, sketches, or building plans to determine materials required and dimensions of structure to be fabricated.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced

& qualified

Χ Inexperienced

Turnover = 12.6%

(Annual percentage rate of job turnover)

Χ



Employee Referrals 73%

40% Walk-In Applicants 33% Newspaper Ads

33% Union Hall Referrals

7% Internet



- Nonresidential Building Construction
- Residential Building Construction



Size as of 2001 = 7,060(Very Large)



M = 95%



The projected growth for the period of 2001–2008 for Carpenters is 8.2% (average).



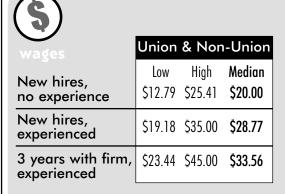
Actual and projected growth as stated by employers surveyed.

| | Decline | Kemain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 13% | 53% | 33% |
| Projected over the next 24 months | 7% | 40% | 53% |

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Includes architectural, structural, traffic, ocean, and geo-technical engineers.

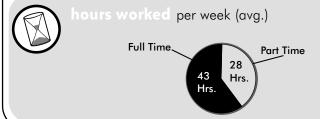
17 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 63% | 31% | 0% |
| Dental | 50% | 31% | 0% |
| Vision | 44% | 25% | 0% |
| Life | 63% | 13% | 0% |
| Sick Leave | 88% | 6% | 0% |
| Vacation | 88% | 6% | 0% |
| Retirement | 19% | 50% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%

employer requirements 100% 80% Not Required Yes No 60% **but Preferred** 40% **Previous** 71% 0% 29% experience 20% required Previous experience required: 19 mos. on average 0% Less Than High School Diploma 0% High School Diploma or Equivalent Training as 0% 100% 0% Associate Degree (2yr) a substitute 0% 100% Bachelor Degree (4yr) for experience 0% Graduate Study 0 mos. of training on average can be substituted for experience.

skills & other requirements



Mathematics Reading Comprehension **Operations Analysis** Writing Critical Thinking Speaking Science

Word Processing Spreadsheet Database Auto CAD **MS Project**

| 17-1012.00 | Landscape Architects |
|------------|--------------------------------------------------------------------|
| 17-2011.00 | Aerospace Engineers |
| 17-2111.01 | Industrial Safety and Health Engineers |
| 17-2121.02 | Marine Architects |
| 17-2131.00 | Materials Engineers |
| 17-2151.00 | Mining and Geological Engineers, Including Mining Safety Engineers |

- Analyzes survey reports, maps, drawings, blueprints, aerial photography, and other topographical or geologic data to plan
- Plans and designs transportation or hydraulic systems and structures, following construction and government standards, using design software and drawing tools.
- Estimates quantities and cost of materials, equipment, or labor to determine project feasibility.
- · Directs construction, operations, and maintenance activities at project site.
- Computes load and grade requirements, water flow rates, and material stress factors to determine design specifications.
- Directs or participates in surveying to lay out installations and establish reference points, grades, and elevations to guide construction.
- Inspects project sites to monitor progress and ensure conformance to design specifications and safety or sanitation standards.
- Conducts studies of traffic patterns or environmental conditions to identify engineering problems and assess the potential impact of projects.
- Tests soils and materials to determine the adequacy and strength of foundations, concrete, asphalt, or steel.
- Provides technical advice regarding design, construction, or program modifications and structural repairs to industrial and managerial personnel.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult Χ

Χ

Fully experienced & qualified

Inexperienced

Turnover = 3.4%(Annual percentage rate of job turnover)



- 88% **Employee Referrals**
- 41% Internet
- 29% Newspaper Ads
- Colleges/Universities
- 12% **Employment Development Department**
- 12% Private Employment Agencies
- 6% Trade Journals
- Walk-In Applicants



- Engineering and Architectural Services
- •Local Government, Except Hospitals and Education



Size as of 2001 = 1,170(small)





The projected growth for the period of 2001-2008 for **Civil Engineers** is 1.7% (slower than average).



Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 82% | 18% |
| Projected over the next 24 months | 0% | 76% | 24% |

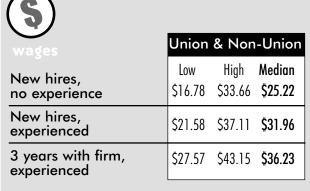
Computer Programmers

SOC 15-1021

Convert project specifications and statements of problems and procedures to detailed logical flow charts for coding into computer language. Develop and write computer programs to store, locate, and retrieve specific documents, data, and information. May program web sites.

15 firms responded

wages & benefits



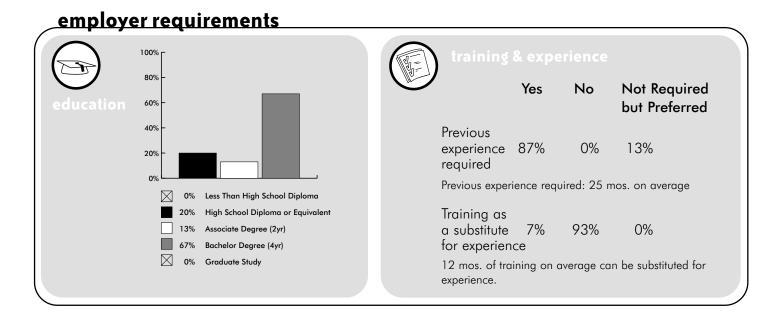
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| | Employer | Shared | Employee |
|----------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 47% | 53% | 0% |
| Dental | 47% | 47% | 7% |
| Vision | 40% | 40% | 0% |
| Life | 80% | 13% | 0% |
| Sick Leave | 93% | 7% | 0% |
| Vacation | 93% | 7% | 0% |
| Retirement | 13% | 53% | 27% |
| Child Care | 0% | 0% | 7% |
| Other* | 100% | 0% | 0% |
| *Stock Options | 3 | | |

hours worked per week (avg.) Full Time,

41

Day 100%



Computer Programmers

• Analyzes, reviews, and rewrites programs, using work-

• Resolves symbolic formulations, prepares flow charts

 Develops programs from workflow charts or diagrams, considering computer storage capacity, speed, and

• Prepares or receives detailed workflow chart and dia-

• Compiles and writes documentation of program devel-

Revises or directs revision of existing programs to

increase operating efficiency or adapt to new require-

Consults with managerial and engineering and techni-

cal personnel to clarify program intent, identify prob-

• Writes instructions to guide operating personnel during production runs. Prepares records and reports.

gram to illustrate sequence of steps to describe input,

and block diagrams, and encodes resultant equations

cessible by computer.

intended use of output data.

output, and logical operation.

lems, and suggest changes.

opment and subsequent revisions.

flow chart and diagram, applying knowledge of computer capabilities, subject matter, and symbolic logic.

• Converts detailed logical flow chart to language pro-

skills & other requirements



skills

Programming
Writing
Reading
Comprehension
Critical Thinking
Active Listening
Active Learning
Operations Analysis
Troubleshooting
Speaking

computer skills

Word Processing Spreadsheet Database Desktop Publishing C, C++, Windows,

related occupations

11-3021.00 Computer and Information Systems Managers
15-1041.00 Computer Support Specialists
15-1051.00 Computer Systems Analysts
15-2031.00 Operations Research Analysts
25-1021.00 Computer Science Teachers, Postsecondary
43-9011.00 Computer Operators

XML, JAVA, Perl GIS, Shell Script Black Box Testing, Unix, Cobalt, Windows NT

supply &

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

& qualified

Inexperienced X

Χ

Turnover = 4.4%

(Annual percentage rate of job turnover)



recruitment methods

100% Internet

73% Employee Referrals

27% Newspaper Ads

13% Colleges/Universities

13% Employment Development Department

7% In-House Promotion or Transfer

7% Private Employment Agencies

where the jobs are

- Computer and Data Processing Services
- Computer and Office Equipment

Decline Remain Stable

Personnel Supply Services



size of occupation

Size as of 2001 = 13,550 (very large)



gender

M = 80%F = 20%



projections

The projected growth for the period of 2001–2008 for **Computer Programmers** is 0.6% (remain stable).



employment levels

Actual and projected growth as stated by employers surveyed.

| | Docimo | Romain Stable | Olow |
|-----------------------------------------|--------|---------------|------|
| During the last 12 months | 27% | 67% | 7% |
| Projected over the next 24 months | 0% | 80% | 20% |

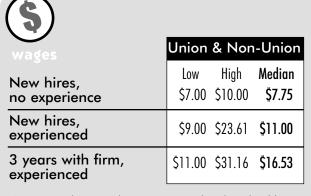
Customer Service Representatives

SOC 43-4051

Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints.

16 firms responded

wages & benefits



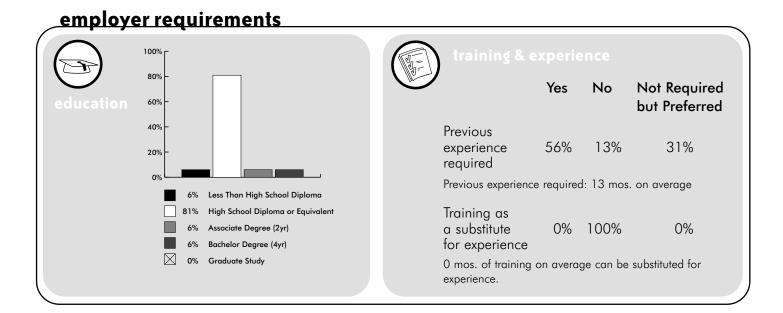
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 56% | 38% | 0% |
| Dental | 56% | 31% | 0% |
| Vision | 38% | 13% | 0% |
| Life | 44% | 0% | 6% |
| Sick Leave | 94% | 0% | 0% |
| Vacation | 94% | 0% | 0% |
| Retirement | 13% | 13% | 38% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts

Day Swing 100% 13%



Customer Service Representatives

skills & other requirements



Speaking Active Listening **Service Orientation** Reading Comprehension Writing Mathematics

Word Processing Spreadsheet Database Other= In-House Inventory Managemaent, SAP, Peachtree, **Quick Books**

| 41-2021.00 | Counter and Rental Clerks |
|------------|----------------------------------------------|
| 41-2031.00 | Retail Salespersons |
| 43-2021.02 | Central Office Operators |
| 43-4031.03 | License Clerks |
| 43-4051.01 | Adjustment Clerks |
| 43-4061.02 | Welfare Eligibility Workers and Interviewers |
| 43-4181.01 | Travel Clerks |

- Confers with customer by phone or in per Resolves billing or service complaints and son to receive orders for installation, turnon, discontinuance, or change in service.
- Completes contract forms, prepares
 Determines charges for service requested change of address records, and issues discontinuance orders, using computer.
- refers grievances to designated departments for investigation.
 - and collects deposits.
 - Solicits sale of new or additional utility services.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Χ Inexperienced

Turnover = 24.0%

(Annual percentage rate of job turnover)



- **Employee Referrals**
- 63% Newspaper Ads
- 44% Internet
- 38% Walk-In Applicants
- Employment Development Department 13%



- Computer and Data Processing Services
- Electrical Goods
- Electronic Components and Accessories
- Hospitals
- •Insurance Agents, Brokers, and Services
- Lumber and Construction Materials
- Measuring and Controlling Devices
- Personnel Supply Services
- Professional and Commercial Equipment
- Telephone Communications



Size as of 2001 = 13,290

(very large)



M = 40%F = 60%



The projected growth for the period of 2001-2008 for Customer Service Representatives is 10.2% (faster than average).

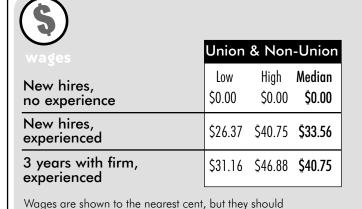


Actual and projected growth as stated by employers surveyed. Decline Remain Stable

| | Decille | Kelliulli Sluble | GIUW |
|-----------------------------------------|---------|------------------|------|
| During the last 12 months | 6% | 69% | 25% |
| Projected over the next 24 months | 0% | 69% | 31% |

Coordinate changes to computer databases, test and implement the database applying knowledge of database management systems. May plan, coordinate, and implement security measures to safeguard computer databases. 14 firms responded

wages & benefits



| (36) | Employer Pays | Shared Cost | Employee Pays All |
|-----------------------|------------------|----------------|----------------------|
| benefits | f/t | f/t | f/t |
| Medical | 64% | 36% | 0% |
| Dental | 64% | 36% | 0% |
| Vision | 57% | 29% | 0% |
| Life | 93% | 0% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 7% | 36% | 50% |
| Child Care | 0% | 0% | 0% |
| Other* *Stock Options | 100% | 0% | 0% |

hours worked per week (avg.)

Full Time

41
Hrs.

not be interpreted as an indication of precision.

Day On-Call 100% 7%

employer requirements 100% 80% No Not Required Yes 60% **but Preferred** 40% Previous 100% 0% 0% experience 20% required Previous experience required: 37 mos. on average 0% Less Than High School Diploma 0% High School Diploma or Equivalent Training as 0% Associate Degree (2yr) a substitute 0% 100% 0% 100% Bachelor Degree (4yr) for experience 0% Graduate Study 0 mos. of training on average can be substituted for experience.

Database Administrators

skills & other requirements



skills

Programming Technology Design

Mathematics Writing Reading Critical

Comprehension Complex Problem

Operations Analysis Solving

Instructing Active Listening

computer skills

Word Processing
Spreadsheet
C, C++
Database
Desktop
Publishing
XML, Perl, Shell
Script, JAVA, SQL
Visual basic
C, C++
Sequel, Unix
Linux
Cobalt
HTML
NT Server



supply & domand

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Χ

Fully experienced & qualified

Inexperienced*

*Employers surveyed do not require previous experience

Turnover = 3.4%

(Annual percentage rate of job turnover)



recruitment methods

100% Internet

93% Employee Referrals

36% Private Employment Agencies

29% Colleges/Universities

7% Employment Development Department

7% Newspaper Ads

related occupations

11-3021.00 Computer and Information Systems Managers
15-1021.00 Computer Programmers
15-1041.00 Computer Support Specialists
15-1051.00 Computer Systems Analysts
15-1071.01 Computer Security Specialists

tacks

- Writes logical and physical data base descriptions including location, space, access method, and security.
- Establishes and calculates optimum values for data base parameters, using manuals and calculator.
- Develops data model describing data elements and how they are used, following procedures using pen, template or computer software.
- Codes data base descriptions and specifies identifiers of data base to management system or directs others in coding descriptions.
- Tests, corrects errors, and modifies changes to programs or to data base.
- Reviews project request describing data base user needs, estimating time and cost required to accomplish project.
- Selects and enters codes to monitor data base performance and to create production data base.
- Directs programmers and analysts to make changes to data base management system.
- Reviews workflow charts developed by programmer analyst to understand tasks computer will perform, such as updating records.
- Reviews procedures in data base management system manuals for making changes to data base.



where the jobs are

 Computer and Data Processing Services



size of occupation

Size as of 2001 = 3,080 (large)





projections

The projected growth for the period of 2001–2008 for **Database Administrators** is 26.9% (much faster than average).



employment levels

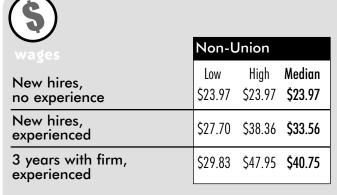
Actual and projected growth as stated by employers surveyed.

| | Decline | Kemain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 93% | 7% |
| Projected over the next 24 months | 0% | 93% | 7% |

Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| | Employer | Shared | Employee |
|-----------------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 53% | 47% | 0% |
| Dental | 47% | 53% | 0% |
| Vision | 40% | 47% | 7% |
| Life | 87% | 0% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 0% | 87% | 13% |
| Child Care | 0% | 0% | 7% |
| Other* *Stock Options | 100% | 0% | 0% |

hours worked per week (avg.)

Full Time

42

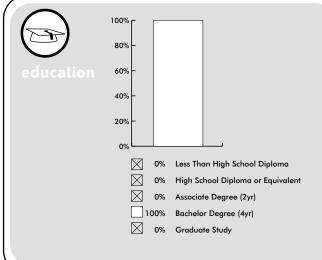
Hrs.

work shifts



100%

employer requirements





experience.

Previous
experience 93% 0% 7%
required
Previous experience required: 40 mos. on average

Training as
a substitute 0% 100% 0%
for experience
0 mos. of training on average can be substituted for

Yes

No

Not Required

Electrical Engineers

skills & other requirements



skills

Mathematics
Science
Reading
Comprehension
Judgment and Decision
Making
Critical Thinking
Technology Design
Writing

computer skills

Word Processing Spreadsheet MS Project C, C++ VHDL Tools

related occupations

| 11-9041.00 | Engineering Managers |
|------------|--------------------------------------------------------------------|
| 17-2011.00 | Aerospace Engineers |
| 17-2072.00 | Electronics Engineers, Except Computer |
| 17-2121.02 | Marine Architects |
| 17-2141.00 | Mechanical Engineers |
| 17-2151.00 | Mining and Geological Engineers, Including Mining Safety Engineers |

tasks

- Designs electrical instruments, equipment, facilities, components, products, and systems for commercial, industrial, and domestic purposes.
- Plans and implements research methodology and procedures to apply principles of electrical theory to engineering projects.
- Prepares and studies technical drawings,

specifications of electrical systems, and topographical maps to ensure installation and operations conform to standards and customer requirements.

- Develops applications of controls, instruments, and systems for new commercial, domestic, and industrial uses.
- Directs operations and coordinates manufacturing, construction, installation, maintenance, and testing activities to ensure compliance with specifications, codes, and customer requirements.
- Plans layout of electric power generating plants and distribution lines and stations.
- Conducts field surveys and studies maps, graphs, diagrams, and other data to identify and correct power system problems.



supply &

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Inexperienced

Χ

Turnover = 4.4%

(Annual percentage rate of job turnover)

Χ



recruitment methods

100% Internet 100% Employee

00% Employee Referrals 20% Newspaper Ads

20% Private Employment Agencies

20% Trade Journals

7% Colleges/Universities



where the jobs are

- Computer and Data Processing Services
- Computer and Office Equipment
- Electronic Components and Accessories
- Engineering and Architectural Services
- Measuring and Controlling Devices
- •Search and Navigation Equipment



size of occupation

Size as of 2001 = 8,310 (very large)



gender

M = 88%



projections

The projected growth for the period of 2001–2008 for **Electrical Engineers** is -1.3% (decline).



employment levels

Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 20% | 60% | 20% |
| Projected over the next 24 months | 0% | 73% | 27% |

Electricians SOC 47-2111

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

employer requirements

| (25) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 87% | 0% | 7% |
| Dental | 80% | 7% | 7% |
| Vision | 73% | 7% | 7% |
| Life | 87% | 0% | 7% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 13% | 73% | 7% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%

100% 80% No Not Required Yes 60% **but Preferred** 40% Previous 60% 0% 40% experience 20% required Previous experience required: 17 mos. on average 40% Less Than High School Diploma 60% High School Diploma or Equivalent Training as 0% Associate Degree (2yr) a substitute 7% 93% 0% 0% Bachelor Degree (4yr) for experience 0% Graduate Study 60 mos. of training on average can be substituted for

experience.

skills & other requirements



Installation **Troubleshooting** Repairing **Equipment Selection** Equipment Maintenance **Quality Control** Analysis **Mathematics** Reading Comprehension Science

| 17-3012.01 | Electronic Drailers |
|------------|---------------------------------------------------------------------------|
| 17-3023.01 | Electronics Engineering Technicians |
| 49-2011.02 | Data Processing Equipment Repairers |
| 49-2091.00 | Avionics Technicians |
| 49-2094.00 | Electrical and Electronics Repairers, Commercial and Industrial Equipment |
| 51-2022.00 | Electrical and Electronic Equipment Assemblers |

17 2012 01

• Installs electrical wiring, equipment, apparatus, and fixtures, using hand tools and power tools.

Elantuania Dualta

- Maintains and repairs or replaces wiring, equipment and fixtures, using hand tools.
- Plans layout and installation of electrical wiring, equipment and fixtures consistent with specifications and local codes.
- Inspects systems and electrical parts to detect hazards, defects, and need for adjustments or repair.
- Tests electrical systems and continuity of circuits in electrical wiring, equipment, and fixtures, using testing devices, such as ohmmeter, voltmeter, and oscilloscope.
- Diagnoses malfunctioning systems, apparatus, and components, using test equipment and hand tools.
- · Readies and assembles electrical wiring, equipment and fixtures, using specifications and hand tools.
- · Prepares sketches of location of wiring and equipment or follows blueprints to determine location of equipment and conformance to safety codes.
- Climbs ladder to install, maintain or repair electrical wiring, equipment and fixtures.
- Constructs and fabricates parts, using hand tools and specifications.



Critical Thinking

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced

Χ & qualified

Χ Inexperienced

Turnover = 16.8%

(Annual percentage rate of job turnover)



- 60% **Employee Referrals** Union Hall Referrals 47% 40% Newspaper Ads
- 20% Walk-In Applicants
- **Employment Development Department** 7%
- 7% In-House Promotion or Transfer
- Internet



Electrical Work



Size as of 2001 = 4,920(large)



M = 98%



The projected growth for the period of 2001-2008 for **Electricians** is 10.4% (faster than average).



Actual and projected growth as stated by employers surveyed.

| | Decline | Kemain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 47% | 13% | 40% |
| Projected over the next 24 months | 0% | 40% | 60% |

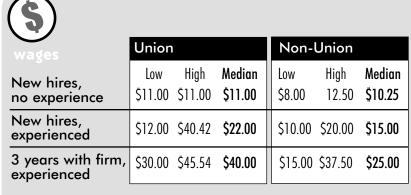
Heating, Air Conditioning, and Refrigeration Mechanics and Installers

SOC 49-9021

Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

18 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| (JC) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 89% | 11% | 0% |
| Dental | 83% | 17% | 0% |
| Vision | 78% | 11% | 0% |
| Life | 78% | 17% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 11% | 67% | 6% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts



employer requirements 100% 80% Not Required Yes No 60% **but Preferred** 40% **Previous** 83% 0% 17% experience 20% required Previous experience required: 16 mos. on average Less Than High School Diploma 28% High School Diploma or Equivalent Training as 0% Associate Degree (2yr) 0% 100% 0% a substitute 0% Bachelor Degree (4yr) for experience 0% Graduate Study 0 mos. of training on average can be substituted for experience.

Heating, Air Conditioning, and Refrigeration **Mechanics and Installers**

skills & other requirements



Speaking Active Listening Social Perceptiveness Writing Persuasion Readina Comprehension

| 49-2092.01 | Electric Home Appliance and Power Tool Repairers |
|------------|----------------------------------------------------------|
| 49-2092.05 | Electrical Parts Reconditioners |
| 49-3051.00 | Motorboat Mechanics |
| 49-3052.00 | Motorcycle Mechanics |
| 49-3053.00 | Outdoor Power Equipment and Other Small Engine Mechanics |
| 49-9012.03 | Meter Mechanics |

- · Mails form letters to customers to encourage payment of delinquent accounts.
- Persuades customer to pay amount due on credit account, damage claim, or nonpayable check, or negotiates extension of credit.
- Notifies credit department, orders merchandise repossession or service discon-
- nection, or turns over account to attorney if customer fails to respond.
- Receives payments and posts amount paid to customer account, using computer or paper records.
- Records information about financial status of customer and status of collection
- Confers with customer by telephone or in person to determine reason for overdue payment and review terms of sales, service, or credit contract.
- Traces delinquent customer to new address by inquiring at post office or questioning neighbors.
- Drives vehicle to visit customer, return merchandise to creditor, or deliver bills.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Χ Inexperienced

Turnover = 12.6%

(Annual percentage rate of job turnover)



56% **Employee Referrals** 50% Union Hall Referrals 44% Newspaper Ads

17% Internet

11% Walk-In Applicants



- Colleges and Universities
- Electrical Repair Shops
- Hardware, Plumbing and Heating Equipment
- Miscellaneous Repair Shops
- Plumbing, Heating, Air-Conditioning



Size as of 2001 = 680(small)



M = 99%



The projected growth for the period of 2001–2008 for Heating, Air Conditioning, Refrigeration Mechanic and Installers is 11.8% (much faster than average).



Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 28% | 56% | 17% |
| Projected over the next 24 months | 0% | 61% | 39% |

Hotel, Motel, and Resort Desk Clerks

SOC 43-4081

Employee

Pays All

f/t

0%

0%

0% 6%

0% 0%

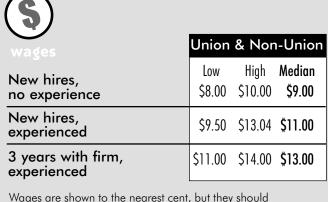
39%

0% 0%

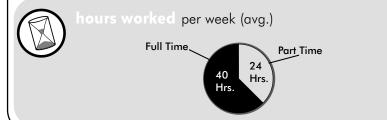
Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests.

18 firms responded

wages & benefits



| ew nires, | CO FO C10 04 C11 00 | |
|------------------------------------------------------------------------|-------------------------------|------------|
| enced | \$9.50 \$13.04 \$11.00 | Life |
| ears with firm, | C11.00 C14.00 C12.00 | Sick Leave |
| experienced | \$11.00 \$14.00 \$13.00 | Vacation |
| | | Retirement |
| ages are shown to the nearest cer t be interpreted as an indication | • | Child Care |
| or be interpreted as air indication | or procision: | Other* |





Employer

Pays

f/t

28%

28%

17%

Medical

Dental

Vision

*meals

Shared

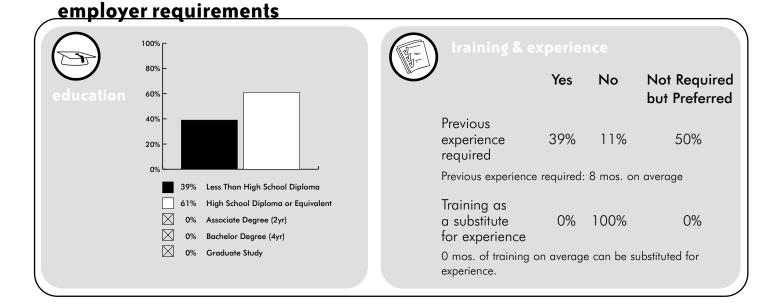
Cost

f/t

72%

72%

67%



Hotel, Motel, and Resort Desk Clerks

skills & other requirements



Service Orientation Speaking **Active Listening Mathematics** Coordination Writing **Social Perceptiveness**

Word Processing Spreadsheet Desktop Publishing

| 35-3022.00 | Counter Attendants, Cafeteria, Food Concession, and Coffee Shop |
|------------|-----------------------------------------------------------------|
| 35-3041.00 | Food Servers, Nonrestaurant |
| 39-3031.00 | Ushers, Lobby Attendants, and Ticket Takers |
| 41-2021.00 | Counter and Rental Clerks |
| 43-2021.02 | Central Office Operators |
| 43-4031.03 | License Clerks |

- Greets, registers, and assigns rooms to Posts charges, such as room, food, liquor, guests of hotel or motel.
- Keeps records of room availability and
- Computes bill, collects payment, and Issues room key and escort instructions to makes change for quests.
- Makes and confirms reservations.
- or telephone, to ledger, manually or using computer.
- guests' accounts, manually or using com- Transmits and receives messages, using telephone or telephone switchboard.
 - bellhop.
 - Date-stamps, sorts, and racks incoming mail and messages.
 - Answers inquiries pertaining to hotel services; registration of guests; and shopping, dining, entertainment, and travel direc-
 - · Deposits guests' valuables in hotel safe or safe-deposit box.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Χ Inexperienced

Turnover = 11.8%

(Annual percentage rate of job turnover)



Hotels and Motels



72% **Employee Referrals**

39% Internet

39% Walk-In Applicants 17% Other - Hotel Job Board,

Job Fair, Job Telephone Line

17% Newspaper Ads

11% Colleges/Universities

6% Union Hall Referrals



Size as of 2001 = 1,140(small)



M = 42%F = 58%



The projected growth for the period of 2001-2008 for Hotel, Motel, and Resort Desk Clerks is 21.9% (much faster than average).



Actual and projected growth as stated by employers surveyed.

| | Documo | Kelliulli Slubie | OIOW |
|-----------------------------------------|--------|------------------|------|
| During the last 12 months | 0% | 89% | 11% |
| Projected over the next 24 months | 6% | 83% | 11% |

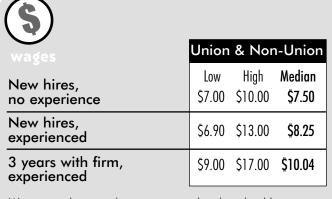
Decline Remain Stable

Janitors and Cleaners, except Maids and Housekeeping Cleaners

SOC 37-2011

Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk. 15 firms responded

wages & benefits

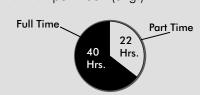


Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 46% | 38% | 0% |
| Dental | 46% | 23% | 0% |
| Vision | 23% | 8% | 0% |
| Life | 23% | 8% | 0% |
| Sick Leave | 77% | 0% | 0% |
| Vacation | 85% | 0% | 0% |
| Retirement | 0% | 38% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



hours worked per week (avg.)



work shifts



Day 73%



Swing 73%

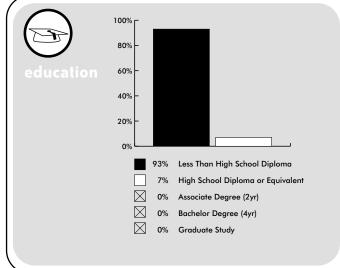
No



Graveyard 13%

Not Required

<u>employer requirements</u>





training & experience

Yes

| | 103 | | but Preferred |
|-----------------------------------------|-----------|----------|-----------------|
| Previous experience required | 27% | 60% | 13% |
| Previous experience | required: | 10 mos. | on average |
| Training as a substitute for experience | 17% | 83% | 0% |
| 3 mos. of training o experience. | n averag | e can be | substituted for |

Janitors and Cleaners, Except Maids and Housekeeping Cleaners

skills & other requirements



skills

Equipment Maintenance Repairing Troubleshooting

related occupations

| 37-3011.00 | Landscaping and Groundskeeping Workers |
|------------|------------------------------------------------------------|
| 47-3011.00 | HelpersBrickmasons, Blockmasons, Stonemasons, |
| | and Tile and Marble Setters |
| 47-3015.00 | HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters |
| 49-3022.00 | Automotive Glass Installers and Repairers |
| 49-9011.00 | Mechanical Door Repairers |
| 49-9045.00 | Refractory Materials Repairers, Except Brickmasons |
| | |



supply &

(difficulty in finding applicants)

Not Moderately Difficult Difficult

Very Difficult

Fully experienced & qualified

Χ

Inexperienced

Χ

Turnover = 12.6%

(Annual percentage rate of job turnover)



recruitment methods

| 100% | Employee Referrals |
|------|--------------------|
| 80% | Walk-In Applicants |
| 53% | Newspaper Ads |
| 70/ | Transla la umanla |

7% Trade Journals

7% Other - Church Groups



size of occupation

Size as of 2001 = 15,820

(very large)



gender

M = 52%F = 48%

tasks

- Sweeps, mops, scrubs, and vacuums floors of buildings, using cleaning solutions, tools and equipment.
- Cleans or polishes walls, ceilings, windows, plant equipment and building fixtures, using steam cleaning equipment, scrapers, brooms and variety of hand and power tools.
- Applies waxes or sealers to wood or concrete floors.
- Gathers and empties trash.
- Tends, cleans, adjusts and services furnaces, air conditioners, boilers and other building heating and cooling systems.
- Notifies management personnel concerning need for major repairs or additions to building operating systems.
- Removes snow from sidewalks, driveways, and parking areas, using snowplow, snowblower, and snow shovel, and spreads snow melting chemicals.
- Dusts furniture, walls, machines, and equipment.
- Services and repairs cleaning and maintenance equipment and machinery and performs minor routine painting, plumbing, electrical, and related activities.
- Cleans and restores building interiors damaged by fire, smoke, or water, using commercial cleaning equipment.



where the jobs are

- Colleges and Universities
- Elementary and Secondary Schools



projections

The projected growth for the period of 2001–2008 for **Janitors and Cleaners**, **except Maids and Housekeeping Cleaners** is 12.1% (much faster than average).



employment levels

Actual and projected growth as stated by employers surveyed.

| | Decline | Kellialli Slabie | Grow |
|-----------------------------------------|---------|------------------|------|
| During the last 12 months | 7% | 67% | 27% |
| Projected over the next 24 months | 0% | 80% | 20% |

Landscaping and Groundskeeping Workers

Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units. 17 firms responded

wages & benefits



| wages | Union & Non-Unio | | -Union |
|--------------------------------|------------------|-----------------|------------------|
| New hires, no experience | Low \$7.00 | High \$10.00 | Median \$8.00 |
| New hires, experienced | \$9.00 | \$16.00 | \$10.50 |
| 3 years with firm, experienced | \$11.00 | \$23.50 | \$15.00 |

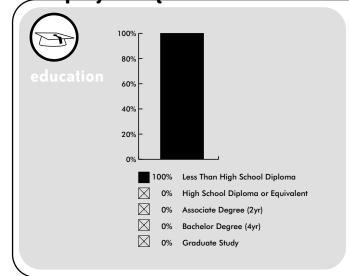
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| (19) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 13% | 75% | 6% |
| Dental | 13% | 69% | 13% |
| Vision | 13% | 69% | 13% |
| Life | 13% | 75% | 6% |
| Sick Leave | 81% | 6% | 0% |
| Vacation | 88% | 6% | 0% |
| Retirement | 0% | 38% | 13% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%

employer requirements





training & experience

| | | Yes | No | Not Required but Preferred |
|--------------------------|--------------------------------|-----------|-----------|----------------------------|
| Previo exper requi | ience | 41% | 0% | 59% |
| Previo | us experience | required: | 10 mos. c | on average |
| a sub | ng as estitute operience | 6% | 94% | 0% |
| 6 mos | . of training o | n average | can be su | bstituted for |

skills & other requirements



skills

Equipment Selection Basic Math Skills Ability to Read and Follow instructions Ability to write legibly

related occupations

35-9021.00

37-3012.00 Pesticide Handlers, Sprayers, and Applicators, Vegetation
45-2092.01 Nursery Workers
49-3022.00 Automotive Glass Installers and Repairers
53-7061.00 Cleaners of Vehicles and Equipment
53-7062.01 Stevedores, Except Equipment Operators

tacks

- Mows lawns, using power mower.
- Trims and picks flowers and cleans flower beds.
- Digs holes for plants, mixes fertilizer or lime with dirt in holes, inserts plants, and fills holes with dirt.
- Hauls or spreads topsoil, and spreads straw over seeded soil to hold soil in place.
- Waters lawns, trees, and plants, using portable sprinkler system, hose, or watering can.
- Decorates garden with stones and plants.
- Applies herbicides, fungicides, fertilizers, and pesticides, using spreaders or spray equipment.
- Attaches wires from planted trees to support stakes.
- Seeds and fertilizes lawns.
- Maintains tools and equipment.



supply 8

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Inexperienced

Χ

Turnover = 23.5%

(Annual percentage rate of job turnover)



recruitment methods

- 94% Employee Referrals
- 76% Walk-In Applicants
- 24% Newspaper Ads
- 6% Union Hall Referrals



where the jobs are

- Landscape and Horticultural Services
- Local Government, Except Hospitals and Education
- Miscellaneous Amusement, Recreation Services
- Religious Organizations



size of occupation

Size as of 2001 = 6,000

(large)



gender

M = 99%



projections

The projected growth for the period of 2001-2008 for Landscaping and Groundskeeping Workers is 15.7% (much faster than average).



employment levels

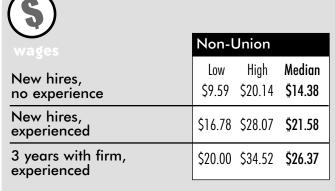
Actual and projected growth as stated by employers surveyed.

Decline Remain Stable Grow

| | Docinio | Remain Stable | Olow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 6% | 47% | 47% |
| | | | |
| Projected over the next 24 months | 0% | 53% | 47% |

Perform secretarial duties utilizing legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research. 19 firms responded

wages & benefits

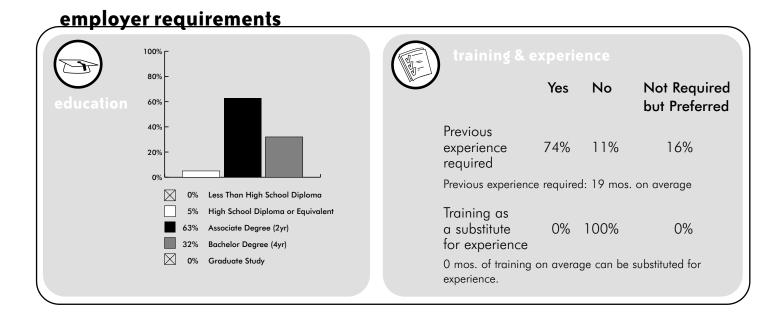


Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 47% | 53% | 0% |
| Dental | 37% | 53% | 0% |
| Vision | 26% | 58% | 0% |
| Life | 42% | 47% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 11% | 37% | 32% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%



skills & other requirements



Reading Comprehension Coordination Time Management Writing **Active Listening** Speaking Monitoring

Word Processing Spreadsheet Database **Desktop Publishing Power Point**

| 23-2011.00 | Paralegals and Legal Assistants |
|------------|---------------------------------------------------|
| 23-2092.00 | Law Clerks |
| 23-2093.01 | Title Searchers |
| 43-4021.00 | Correspondence Clerks |
| 43-4031.01 | Court Clerks |
| 43-6013.00 | Medical Secretaries |
| 43-6014.00 | Secretaries, Except Legal, Medical, and Executive |
| 43-9061.00 | Office Clerks, General |

- Prepares and processes legal documents and papers, such as summonses, subpoenas, complaints, appeals, motions, and pretrial agreements.
- Reviews legal publications and performs

data base searches to identify laws and court decisions relevant to pending cases.

- Submits articles and information from searches to attorneys for review and approval for use.
- Assists attorneys in collecting information such as employment, medical, and other records.
- · Organizes and maintains law libraries and document and case files.
- Completes various forms, such as accident reports, trial and courtroom requests, and applications for clients.
- · Mails, faxes, or arranges for delivery of legal correspondence to clients, witnesses, and court officials.
- Attends legal meetings, such as client interviews, hearings, or depositions, and takes notes.
- Drafts and types office memos.
- Receives and places telephone calls.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced

& qualified

Χ Inexperienced

Turnover = 6.0%

(Annual percentage rate of job turnover)

Χ



00% **Employee Referrals**

74% Internet

74% Newspaper Ads

5% **Employment Development Department**

5% Other - Transfers from other Law Firms

School, Program Referrals



Legal Services



Size as of 2001 = 1,950

(medium)



M = 8%

= 92%



The projected growth for the period of 2001–2008 for **Legal Secretaries** is 8.2% (average).



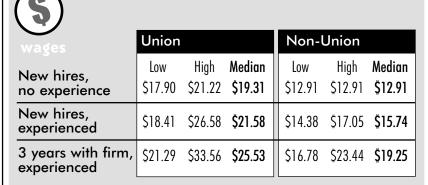
Actual and projected growth as stated by employers surveyed. Remain Stable

| | Decime | Kelliulli Sluble | GIUW |
|-----------------------------------------|--------|------------------|------|
| During the last 12 months | 0% | 74% | 26% |
| Projected over the next 24 months | 0% | 79% | 21% |

Librarians SOC 25-4021

Administer libraries and perform related library services. Work in a variety of settings, including public libraries, schools, colleges and universities, museums, corporations, government agencies, law firms, nonprofit organizations, and healthcare providers. Tasks may include selecting, acquiring, cataloguing, classifying, circulating, and maintaining library materials; and furnishing reference, bibliographical, and readers' advisory services. May perform in-depth, strategic research, and synthesize, analyze, edit, and filter information. May set up or work with databases and information systems to catalogue and access information. 15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

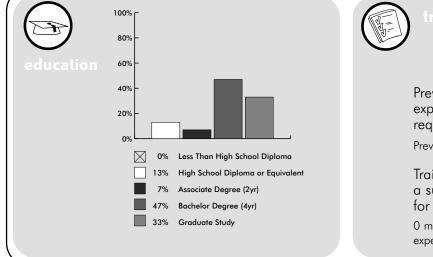
| | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | l f/t |
| Medical | 92% | 8% | 0% |
| Dental | 92% | 8% | 0% |
| Vision | 77% | 15% | 8% |
| Life | 92% | 0% | 8% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 77% | 23% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |

7%





employer requirements



| | training & ex | perie | | |
|------------------------------------------------------------------|-----------------------------------------|-----------|---------|----------------------------|
| | | Yes | No | Not Required but Preferred |
| | Previous experience required | 27% | 7% | 67% |
| | Previous experience | required: | 12 mos. | on average |
| | Training as a substitute for experience | 0% | 100% | 0% |
| 0 mos. of training on average can be substituted for experience. | | | | |

skills & other requirements



Reading Comprehension **Speaking Service Orientation Active Listening** Management of **Material Resources**

Word Processing Spreadsheet Database **PowerPoint** Lexis Nexis MS Office

| 11-3021.00 | Computer and Information Systems Managers |
|------------|-----------------------------------------------------------|
| 11-9032.00 | Education Administrators, Elementary and Secondary School |
| 11-9051.00 | Food Service Managers |
| 25-2021.00 | Elementary School Teachers, Except Special Education |
| 25-4031.00 | Library Technicians |
| | |

- tions, documents, audiovisual aids, and other reference materials for convenient
- · Reviews and evaluates resource material to select and order books, periodicals, audiovisual aids, and other materials for acquisition.
- Organizes collections of books, publica- Assists patrons in selecting books and informational material and in research problems.
 - Codes, classifies, and catalogs books, publications, films, audiovisual aids, and other library materials.
 - Researches, retrieves, and disseminates information from books, periodicals, reference materials or commercial data bases in response to requests.
 - Manages library resources stored in files, on film, or in computer data bases for research information.
 - · Reviews, compiles, and publishes listing of library materials, including bibliographies and book reviews, to notify users.
 - Explains use of library facilities, resources, equipment, and services and provides information governing library use and policies.
 - Manages library program for children and other special groups.
 - Assembles and arranges display materials.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Inexperienced

Χ

Turnover = 9.3%

(Annual percentage rate of job turnover)



- 80%
- 60% **Employee Referrals**
- 47% Newspaper Ads
- 40% School, Program Referrals

Χ

- 27% Colleges/Universities
- 20% Trade Journals



- Colleges and Universities
- Elementary and Secondary Schools
- Legal Services
- Local Government, Except Hospitals and Education
- Research and Testing Services



Size as of 2001 = 570(small)

M = 15%F = 85%



The projected growth for the period of 2001-2008 for **Librarians** is 5.3% (slower than average).



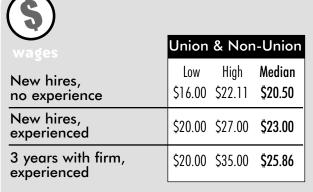
Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 100% | 0% |
| Projected over the next 24 months | 0% | 100% | 0% |

Licensed Practical and Licensed Vocational Nurses

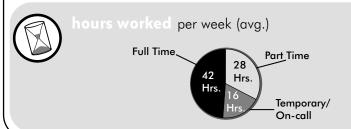
Care for ill, injured, convalescent, or disabled persons in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required. 15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 73% | 27% | 0% |
| Dental | 67% | 33% | 0% |
| Vision | 67% | 27% | 7% |
| Life | 93% | 7% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 0% | 100% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts

Day Swing Graveyard Weekend
100% 87% 80% 7%

employer requirements 100% 80% No Not Required Yes 60% **but Preferred** 40% **Previous** 40% 7% 53% experience 20% required Previous experience required: 12 mos. on average 0% Less Than High School Diploma 53% High School Diploma or Equivalent Training as Associate Degree (2yr) a substitute 14% 86% 0% Bachelor Degree (4yr) for experience 0% Graduate Study 18 mos. of training on average can be substituted for experience.

skills & other requirements

Operation and Control



Active Listening Word Processing Service Orientation Spreadsheet Reading Comprehension **Social Perceptiveness**

29-1011.00 Chiropractors 29-1023.00 Orthodontists 29-1041.00 Optometrists Physician Assistants 29-1071.00 29-1126.00 Respiratory Therapists 29-2021.00 Dental Hygienists 31-1013.00 Psychiatric Aides

Judgment and Decision Making **Speaking** Monitoring **Critical Thinking** Writing

- Administers specified medication, orally or
 Dresses wounds, gives enemas, douches, by subcutaneous or intramuscular injection, and notes time and amount on patients' charts.
- Provides medical treatment and personal care to patients in private home settings.
- Takes and records patients' vital signs.
- alcohol rubs, and massages.
- Applies compresses, ice bags, and hot water bottles.
- Observes patients and reports adverse reactions to medication or treatment to medical personnel in charge.
- Bathes, dresses, and assists patients in walking and turning.
- Assembles and uses such equipment as catheters, tracheotomy tubes, and oxygen suppliers.
- Collects samples, such as urine, blood, and sputum, from patients for testing and performs routine laboratory tests on sam-
- · Sterilizes equipment and supplies, using germicides, sterilizer, or autoclave.



(difficulty in finding applicants)

Not Moderately Verv Difficult Difficult Difficult Χ

Inexperienced Χ

Turnover = 8.2%

Fully experienced

& qualified

(Annual percentage rate of job turnover)



00% **Employee Referrals**

67% Internet

Newspaper Ads 60%

33% Colleges/Universities

13% School, Program Referrals

13% Trade Journals

7% Walk-In Applicants

Other - Hospital Website



- Home Health Care Services
- Hospitals
- Nursing and Personal Care Facilities
- Offices of Physicians



Size as of 2001 = 1,930

(medium)



M = 9%F = 91%



The projected growth for the period of 2001–2008 for Licensed Practical and Licensed **Vocational Nurses** is 7.8% (average).



Actual and projected growth as stated by employers surveyed.

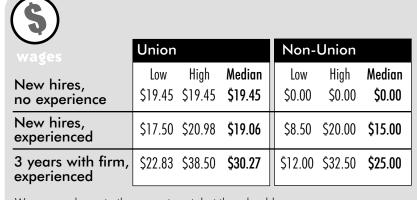
| | Decime | Kellialli Slable | Grow |
|-----------------------------------------|--------|------------------|------|
| During the last 12 months | 0% | 53% | 47% |
| Projected over the next 24 months | 0% | 73% | 27% |

Machinists Soc 51-4041

Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures.

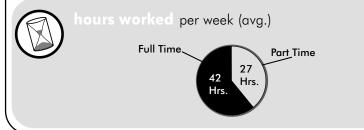
17 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| (25) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 53% | 47% | 0% |
| Dental | 53% | 47% | 0% |
| Vision | 41% | 47% | 0% |
| Life | 59% | 12% | 0% |
| Sick Leave | 94% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 0% | 59% | 29% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%

employer requirements 100% No Not Required Yes 60% **but Preferred** 40% **Previous** 82% 0% 18% experience 20% required Previous experience required: 20 mos. on average Less Than High School Diploma 24% High School Diploma or Equivalent Training as 6% Associate Degree (2yr) a substitute 6% 94% 0% 0% Bachelor Degree (4yr) for experience 0% Graduate Study 48 mos. of training on average can be substituted for experience.

skills & other requirements



skills

Quality Control Analysis Operation and Control Mathematics Operations Analysis

Equipment Selection Operation Monitoring Critical Thinking Science

Troubleshooting Installation

computer skills

CNC Programming

related occupations

| 17-3027.00 | Mechanical Engineering Technicians |
|------------|----------------------------------------|
| 49-9044.00 | Millwrights |
| 51-2011.02 | Aircraft Systems Assemblers, Precision |
| 51-2031.00 | Engine and Other Machine Assemblers |
| 51-4061.00 | Model Makers, Metal and Plastic |
| | |

tasks

- Studies sample parts, blueprints, drawings, and engineering information to determine methods and sequence of operations to fabricate product.
- Operates metalworking machine tools, such as lathe, milling machine, shaper, or grinder to machine parts to specifications.
- Assembles parts into completed units,
- using jigs, fixtures, hand tools, and power tools.
- Fabricates, assembles, and modifies tooling, such as jigs, fixtures, templates, and molds or dies to produce parts and assemblies.
- Lays out and verifies dimensions of parts, using precision measuring and marking instruments and knowledge of trigonometry.
- Calculates and sets controls to regulate machining, or enters commands to retrieve, input, or edit computerized machine control media.
- Selects, aligns, and secures holding fixtures, cutting tools, attachments, accessories, and materials onto machines.



suppry &

(difficulty in finding applicants)

D:ft: IV:

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Inexperienced X

Turnover = 14.4%

(Annual percentage rate of job turnover)



recruitment methods

- 82% Newspaper Ads
- 76% Employee Referrals
- 29% Internet
- 18% Union Hall Referrals
- 12% Employment Development Department
- 12% Walk-In Applicants
- 6% In-House Promotion or Transfer



where the jobs are

- Electronic Components and Accessories
- •Industrial Machinery, NEC
- Measuring and Controlling Devices
- Metalworking Machinery
- Miscellaneous Fabricated Metal Products
- Personnel Supply Services
- Special Industry Machinery



size of occupation

Size as of 2001 = 3,970 (large)



gender

M = 92%F = 8%



projections

The projected growth for the period of 2001–2008 for **Machinists** is 0.0% (remain stable).



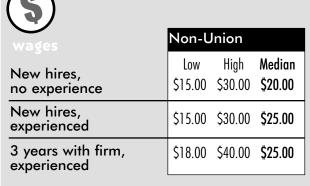
employment levels

Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 35% | 53% | 12% |
| Projected over the next 24 months | 0% | 71% | 29% |

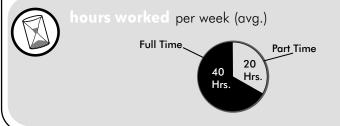
Massage customers for hygienic or remedial purposes. 15 firms responded

wages & benefits



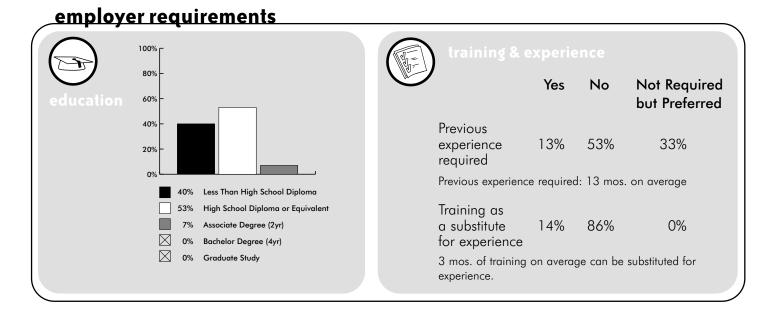
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 0% | 100% | 0% |
| Dental | 0% | 50% | 0% |
| Vision | 0% | 0% | 0% |
| Life | 0% | 50% | 0% |
| Sick Leave | 50% | 0% | 0% |
| Vacation | 50% | 0% | 0% |
| Retirement | 0% | 0% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts

Day Swing 100% 13%



Massage Therapists

skills & other requirements

Please note that neither O*Net nor CCOIS provides occupational information for Massage Therapists.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced X

& qualified

Inexperienced X

Turnover = 16.3%

(Annual percentage rate of job turnover)



recruitment methods

80% Employee Referrals 60% Newspaper Ads

40% School, Program Referrals

40% Walk-In Applicants

13% Colleges/Universities

13% Internet

7% Other - Patient Referrals



where the jobs are

- •Beauty Shops
- Miscellaneous Amusement and Recreation Services
- Miscellaneous Personal Services



size of occupation

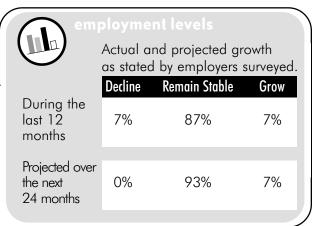
Size as of 2001 = 230 (small)





projections

The projected growth for the period of 2001-2008 for **Massage Therapists** is 8.7% (faster than average).

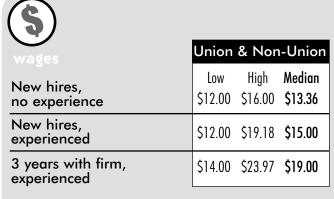


6%

Perform administrative and certain clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician.

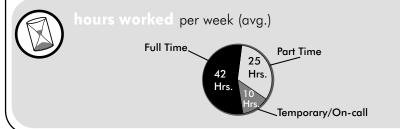
16 firms responded

wages & benefits

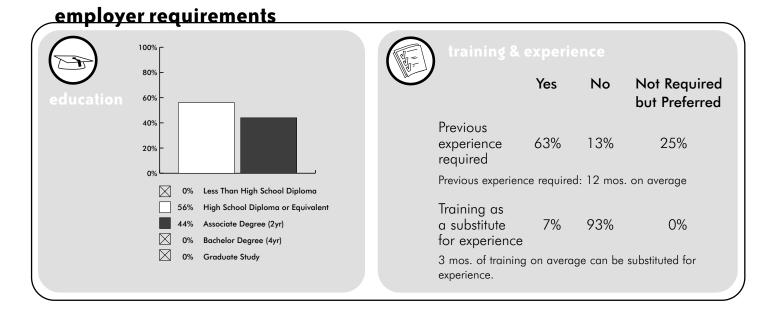


Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 63% | 38% | 0% |
| Dental | 63% | 31% | 0% |
| Vision | 50% | 31% | 6% |
| Life | 88% | 6% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 13% | 75% | 6% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day Swing Graveyard Weekend 100% 50% 63%



skills & other requirements



Service Orientation Writing **Active Listening** Speaking **Social Perceptiveness** Coordination **Operation and Control** Reading Comprehension

Word Processing Spreadsheet **Preferred Medical** Manager

| 29-1111.00 | Registered Nurses |
|------------|---------------------------------------------------|
| 29-1124.00 | Radiation Therapists |
| 29-2033.00 | Nuclear Medicine Technologists |
| 29-2041.00 | Emergency Medical Technicians and Paramedics |
| 29-2061.00 | Licensed Practical and Licensed Vocational Nurses |
| | |

- Prepares treatment rooms for examination
 Inventories and orders medical supplies of patients.
- Hands instruments and materials to Cleans and sterilizes instruments. physician.
- Schedules appointments.
- Maintains medical records.
- Interviews patients, measures vital signs, weight, and height, and records • Lifts and turns patients. information.
- and materials.
- Contacts medical facility or department to schedule patients for tests.
- Computes and mails monthly statements to patients and records transactions.



(difficulty in finding applicants)

| Not | Moderately | Very |
|-----------|------------|-----------|
| Difficult | Difficult | Difficult |

Fully experienced & qualified

Χ Inexperienced

Turnover = 13.6%

(Annual percentage rate of job turnover)



- 100% **Employee Referrals** 81% Newspaper Ads
 - 50% Internet
 - 25% School, Program Referrals
 - 19% Colleges/Universities
 - In-House Promotion or Transfer 13%
 - Union Hall Referrals



- Hospitals
- Offices of Physicians



Size as of 2001 = 2,190(medium)



M = 7%



The projected growth for the period of 2001-2008 for Medical Assistants is 23.7% (much faster than average).



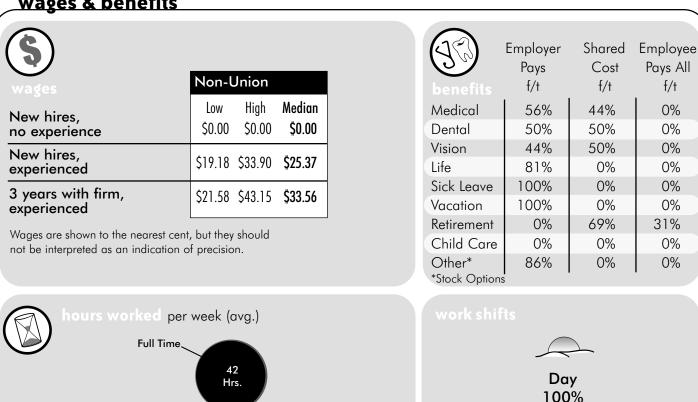
Actual and projected growth as stated by employers surveyed.

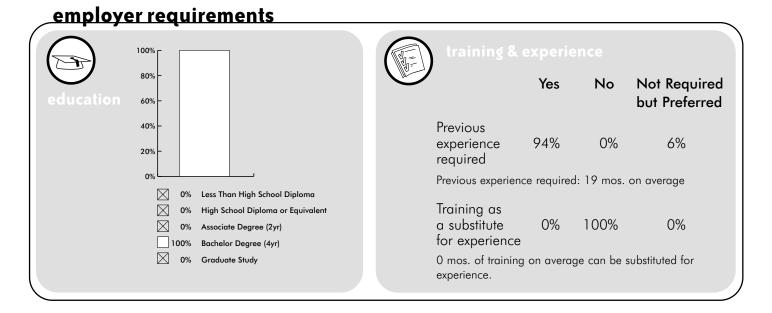
| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 63% | 38% |
| Projected over the next 24 months | 0% | 63% | 38% |

Network and Computer Systems Administrators

Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software. Monitor network to ensure network availability to all system users and perform necessary maintenance to support network availability. May supervise other network support and client server specialists and plan, coordinate, and implement network security measures. 16 firms responded

wages & benefits





skills & other requirements



Programming Writing **Mathematics** Technology Design **Active Listening Operations Analysis**

Word Processing Spreadsheet **Database** Unix, Network Management Software, Windows NT, Web Servers, Apache, Snifer

| 15-1041.00 | Computer Support Specialists |
|------------|-----------------------------------------------------------------|
| 15-1051.00 | Computer Systems Analysts |
| 43-9031.00 | Desktop Publishers |
| 49-2094.00 | Electrical and Electronics Repairers, Commercial and Industrial |
| | Equipment |

- Develops plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs.
- Coordinates implementation of computer system plan with establishment personnel and outside vendors.
- Tests data processing system to ensure functioning of data processing activities and security measures.
- · Modifies computer security files to incorporate new software, correct errors, or change individual access status.
- Confers with personnel to discuss issues such as computer data access needs, security violations, and programming changes.
- Monitors use of data files and regulates access to safeguard information in computer files.
- Writes reports to document computer security and emergency measures policies, procedures, and test results.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Χ Inexperienced

Turnover = 0.5%

(Annual percentage rate of job turnover)



100% **Employee Referrals** 00% Internet

13% Colleges/Universities

13% Private Employment Agencies

6% Newspaper Ads

Trade Journals 6%



- Computer and Data Processing Services
- Electronic Components and Accessories
- Engineering and Architectural Services
- Research and Testing Services



Size as of 2001 = 4,930

(large)



M = 88%F = 12%



The projected growth for the period of 2001–2008 for Network and Computer Systems Administrators is 43.4% (much faster than average).



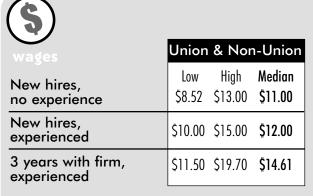
Actual and projected growth as stated by employers surveyed. Decline Remain Stable

| | Decille | Kelliulli Slubie | Olow |
|-----------------------------------------|---------|------------------|------|
| During the last 12 months | 38% | 50% | 13% |
| | | | |
| Projected over the next 24 months | 6% | 75% | 19% |

Nursing Aides, Orderlies, and Attendants

Provide basic patient care under direction of nursing staff. Perform duties, such as feed, bathe, dress, groom, or move patients, or change linens. 16 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

employer requirements

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 63% | 38% | 0% |
| Dental | 50% | 50% | 0% |
| Vision | 50% | 44% | 0% |
| Life | 56% | 19% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 0% | 81% | 6% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts

Day Swing

100%

Swing 94% Graveyard 81%

100% 80% No Not Required Yes 60% **but Preferred** 40% Previous 19% 38% 44% experience 20% required Previous experience required: 11 mos. on average 63% Less Than High School Diploma 38% High School Diploma or Equivalent Training as 0% Associate Degree (2yr) a substitute 0% 100% 0% 0% Bachelor Degree (4yr) for experience 0% Graduate Study 0 mos. of training on average can be substituted for experience.

Nursing Aides, Orderlies, and Attendants

skills & other requirements



Writing

Service Orientation **Social Perceptiveness Active Listening** Coordination **Speaking Technology Design** Reading Comprehension **Equipment Selection Operation Monitoring**

| 29-1123.00 29-2041.00 29-9091.00 31-1011.00 | Physical Therapists Emergency Medical Technicians and Paramedics Athletic Trainers Home Health Aides |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 31-1013.00 | Psychiatric Aides |
| | |

- Feeds patients unable to feed themselves.
- · Sets up equipment, such as oxygen tents, portable x-ray machines, and overhead irrigation bottles.
- Prepares food trays.
- Bathes, grooms, and dresses patients.
- Assists patient to walk.
- Turns and re-positions bedfast patients,
- alone or with assistance, to prevent bed-
- Transports patient to areas, such as operating and x-ray rooms.
- · Measures and records food and liquid intake and output.
- · Administers massages and alcohol rubs.
- Measures and records vital signs.



(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced

& qualified

Χ Inexperienced

Turnover = 11.9%

(Annual percentage rate of job turnover)



- 94% Employee Referrals
- 63% Walk-In Apllicants 50% Newspaper Ads
- 25% Internet
- School, Program Referrals 25%

Χ

- Colleges/Universities 6%
- In-House Promotion or Transfer



- Hospitals
- Nursing and Personal Care Facilities



Size as of 2001 = 3,440(large)



M = 16%

= 84%



The projected growth for the period of 2001-2008 for Nursing Aides, Orderlies, and Attendants is 14.0% (much faster than average).



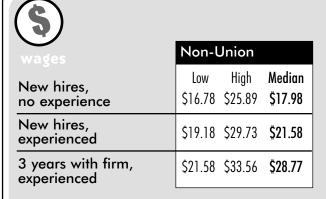
Actual and projected growth as stated by employers surveyed. Decline Remain Stable

| | Docimo | Romain Stable | Olow |
|-----------------------------------------|--------|---------------|------|
| During the last 12 months | 6% | 56% | 38% |
| Projected over the next 24 months | 0% | 81% | 19% |

Assist lawyers by researching legal precedent, investigating facts, or preparing legal documents. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.

15 firms responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 53% | 47% | 0% |
| Dental | 47% | 47% | 0% |
| Vision | 40% | 47% | 0% |
| Life | 53% | 40% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 13% | 47% | 20% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



work shifts



employer requirements 100% 80% Not Required Yes No 60% **but Preferred** 40% Previous 73% 7% 20% experience 20% required Previous experience required: 18 mos. on average 0% Less Than High School Diploma 0% High School Diploma or Equivalent Training as 0% Associate Degree (2yr) a substitute 7% 93% 0% 100% Bachelor Degree (4yr) for experience 0% Graduate Study 36 mos. of training on average can be substituted for experience.

Paralegals and Legal Assistants

skills & other requirements



Reading Comprehension Writing Critical Thinking Speaking Negotiation **Active Listening** Coordination Persuasion

Word Processing Spreadsheet Database

Desktop Publishing

13-2082.00 Tax Preparers 23-1011.00 Lawyers Law Clerks 23-2092.00 23-2093.01 Title Searchers

23-2093.02 Title Examiners and Abstractors

- Gathers and analyzes research data, such
 Prepares affidavits or other documents, as statutes, decisions, and legal articles, codes, and documents.
- Prepares legal documents, including briefs, pleadings, appeals, wills, contracts, and real estate closing statements.
- Investigates facts and law of cases to determine causes of action and to prepare cases.
- maintains document file, and files pleadings with court clerk.
- Appraises and inventories real and personal property for estate planning.
- Arbitrates disputes between parties and assists in real estate closing process.
 - Calls upon witnesses to testify at hearing.
 - Answers questions regarding legal issues pertaining to civil service hearings.
 - Directs and coordinates law office activity, including delivery of subpoenas.
 - Keeps and monitors legal volumes to ensure that law library is up-to-date.



PowerPoint

(difficulty in finding applicants)

Not Moderately Very Difficult Difficult Difficult

Fully experienced & qualified

Χ

Χ Inexperienced

Turnover = 4.3%

(Annual percentage rate of job turnover)



- **Employee Referrals**
- 80% Internet
- Newspaper Ads 60%
- 20% Private Employment Agencies
- **Employment Development Department**
- Other Transfers from other Law Firms



• Legal Services



Size as of 2001 = 2,210(medium)



M = 25%

= 75%



The projected growth for the period of 2001-2008 for Paralegals and Legal Assistants is 21.3% (much faster than average).



Actual and projected growth as stated by employers surveyed. Decline Remain Stable

| | Decille | Kelliulli Sluble | GIUW |
|-----------------------------------------|---------|------------------|------|
| During the last 12 months | 0% | 87% | 13% |
| Projected over the next 24 months | 0% | 93% | 7% |

Plumbers, Pipefitters, and Steamfitters

SOC 47-2152

Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems.

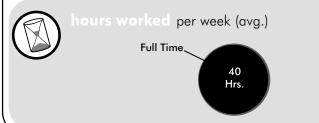
17 firms responded

wages & benefits

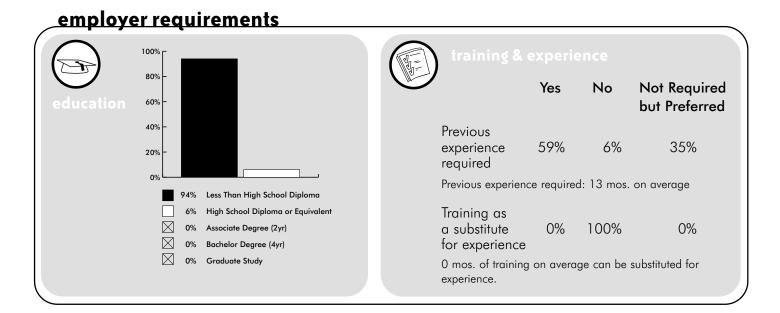


Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 76% | 24% | 0% |
| Dental | 76% | 24% | 0% |
| Vision | 71% | 24% | 0% |
| Life | 76% | 24% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 18% | 59% | 0% |
| Child Care | 0% | 0% | 0% |
| Other | 0% | 0% | 0% |



Day 100%



Plumbers, Pipefitters, and Steamfitters

skills & other requirements



Installation Basic Math Skills Ability to Follow Directions Ability to Write Legibly **Oral Communication Skills**

45-3021.00 Hunters and Trappers

47-2151.00 **Pipelayers**

47-3015.00 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters

33-3051.00 Police and Sheriff's Patrol Officers

- · Guides pipe into trench and signals hoist operator to move pipe until specified alignment with other pipes is achieved.
- Inserts spacers between pipe ends.
- Inspects joint to verify uniformity of spacing and alignment of pipe surfaces.
- Corrects misalignment of pipe, using sledge hammer.



(difficulty in finding applicants)

Not Difficult Moderately Difficult

Verv Difficult

Fully experienced

& qualified

Χ

Inexperienced

Χ

Turnover =5.9%

(Annual percentage rate of job turnover)



Union Hall Referrals 71%

29% **Employee Referrals**

18% Walk-In Applicants

12% Newspaper Ads



Plumbing, Heating, Air-Conditioning



Size as of 2001 = 2,660(medium)

M = 96%



The projected growth for the period of 2001-2008 for Plumbers, Pipefitters, and Steamfitters is 4.9% (slower than average).



Actual and projected growth as stated by employers surveyed.

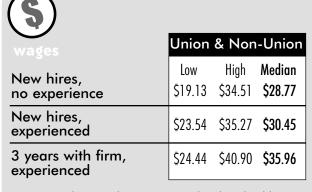
| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 24% | 47% | 29% |
| Projected over the next 24 months | 0% | 71% | 29% |

Police and Sheriff's Patrol Officers

SOC 33-3051

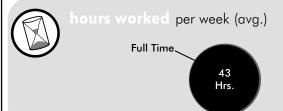
Maintain order, enforce laws and ordinances, and protect life and property in an assigned patrol district. Perform combination of following duties: patrol a specific area on foot or in a vehicle; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts. 14 Firms Responded

wages & benefits



Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| benefits | Employer Pays f/t | Shared Cost f/t | Employee Pays All f/t |
|------------|-------------------------|-----------------------|-----------------------------|
| Medical | 93% | 7% | 0% |
| Dental | 100% | 0% | 0% |
| Vision | 100% | 0% | 0% |
| Life | 100% | 0% | 0% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 57% | 43% | 0% |
| Child Care | 0% | 0% | 7% |
| Other | 0% | 0% | 0% |



employer requirements



Day 100% Swing 86%

Graveyard 79%

100% 80% 60% 40% **Previous** experience 20% required 0% Less Than High School Diploma 36% High School Diploma or Equivalent Training as 57% Associate Degree (2yr) a substitute Bachelor Degree (4yr) for experience 0% Graduate Study experience.

Not Required Yes No **but Preferred** 7% 36% 57% Previous experience required: 10 mos. on average 0% 100% 0% 0 mos. of training on average can be substituted for

Police and Sheriff's Patrol Officers

skills & other requirements



Critical Thinking Social Perceptiveness **Speaking Active Listening** Judgment and Decision Making **Service Orientation** Writing **Active Learning** Reading Comprehension

Word Processing

Coordination

- or motorized conveyance.
- · Maintains order, responds to emergenenforces motor vehicle and criminal law.
- Arrests perpetrator of criminal act or sub Reviews facts to determine if criminal act mits citation or warning to violator of motor vehicle ordinance.
- Patrols specific area on foot, horseback, Monitors traffic to ensure motorists observe traffic regulations and exhibit safe driving procedures.
 - cies, protects people and property, and Directs traffic flow and reroutes traffic in case of emergencies.
 - or statute violation is involved.
 - Evaluates complaint and emergencyrequest information to determine response requirements.
 - Investigates traffic accidents and other accidents to determine causes and to determine if crime has been committed.
 - Provides road information to assist motorists.
 - Relays complaint and emergency-request information to appropriate agency dispatcher.



(difficulty in finding applicants)

Not Moderately Verv Difficult Difficult Difficult Χ

Fully experienced & qualified

Inexperienced

Χ

Turnover = 5.4%

(Annual percentage rate of job turnover)



- 86%
- 79% Newspaper Ads
- 36% **Employee Referrals**
- 21% Colleges/Universities
- 21% School, Program Referrals
- **Employment Development Department** 7%
- 7% Trade Journals
- Walk-In Applicants



Local Government, except Hospitals and Education



Size as of 2001 = 3,230(large)

M = 90%

F = 10%



The projected growth for the period of 2001–2008 for Police and Sheriff's Patrol Officers is 15.2% (much faster than average).



Actual and projected growth as stated by employers surveyed. Decline Remain Stable

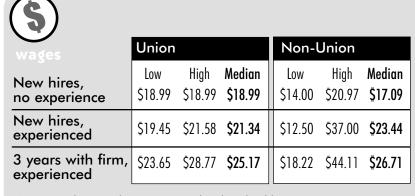
| | Docimo | Nomani Stabio | Olow |
|-----------------------------------------|--------|---------------|------|
| During the last 12 months | 7% | 43% | 50% |
| Projected over the next 24 months | 7% | 71% | 21% |

Substance Abuse and Behavioral Disorder Counselors

Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. May counsel individuals, families, or groups or engage in prevention programs.

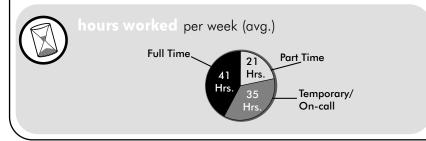
17 firms responded

wages & benefits



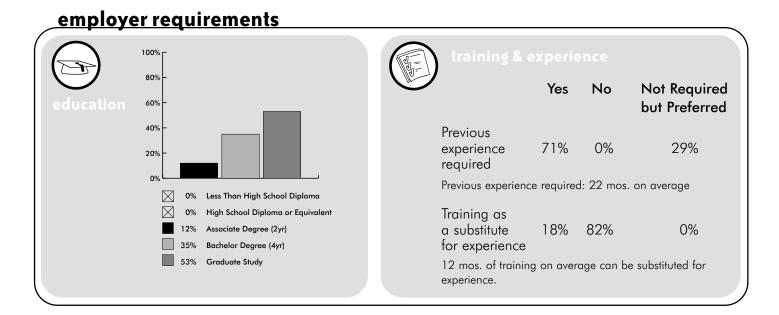
Wages are shown to the nearest cent, but they should not be interpreted as an indication of precision.

| (25) | Employer | Shared | Employee |
|------------|----------|--------|----------|
| | Pays | Cost | Pays All |
| benefits | f/t | f/t | f/t |
| Medical | 71% | 29% | 0% |
| Dental | 71% | 29% | 0% |
| Vision | 64% | 29% | 7% |
| Life | 71% | 14% | 14% |
| Sick Leave | 100% | 0% | 0% |
| Vacation | 100% | 0% | 0% |
| Retirement | 29% | 57% | 14% |
| Child Care | 0% | 0% | 7% |
| Other | 0% | 0% | 0% |



work shifts

Day Swing Weekend
100% 35% 18%



skills & other requirements



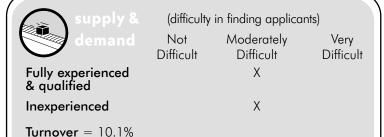
Judgment and Decision Making **Speaking Service Orientation Active Learning Active Listening Learning Strategies** Monitoring

Social Perceptiveness

Word Processing Spreadsheet Database **PowerPoint**

| 21-1093.00 29-1122.00 29-1123.00 | Child, Family, and School Social Workers Social and Human Service Assistants Occupational Therapists Physical Therapists Recreational Therapists |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Plans and conducts programs to prevent Counsels clients and patients, individually substance abuse or improve health and counseling services in community.
- Supervises and directs other workers providing services to client or patient.
- Intervenes as advocate for client or patient to resolve emergency problems in crisis situation.
- and in group sessions, to assist in overcoming dependencies, adjusting to life, and making changes.
- Counsels family members to assist in understanding, dealing with, and supporting client or patient.
- Interviews clients, reviews records, and confers with other professionals to evaluate mental or physical condition of client or patient.
- Formulates or coordinates program plan for treatment, care, and rehabilitation of client or patient, based on social work experience and knowledge.
- Monitors, evaluates, and records client progress according to measurable goals described in treatment and care plan.
- Modifies treatment plan to comply with changes in client's status.
- Refers patient, client, or family to community resources to assist in recovery from mental or physical illness.





(Annual percentage rate of job turnover)

- **Employee Referrals**
- 71% Internet
- Newspaper Ads
- Colleges/Universities 29%
- 18% In-House Promotion or Transfer
- 18% Other - CalJobs, Community Job Posting, Word-of-Mouth
- 12% Trade Journals
- Private Employment Agencies 6%
- 6% School, Program Referrals



- Individual and Family Services
- Residential Care
- Schools and Educational Services, NEC



Size as of 2001 = 150(small)



M = 22%



The projected growth for the period of 2001-2008 for Substance Abuse and Behavioral **Disorder Counselors** is 20.0% (much faster than average).



Actual and projected growth as stated by employers surveyed.

| | Decline | Remain Stable | Grow |
|-----------------------------------------|---------|---------------|------|
| During the last 12 months | 0% | 76% | 24% |
| Projected over the next 24 months | 0% | 82% | 18% |

California Cooperative Occupational Information System

NOVA Workforce Board:

Clysta Seney, Chairperson Michael J. Curran, Director

Project Staff:

Jeanette Langdell, Workforce Publications Manager Heidi Bonner, Workforce Publications Supervisor Jessica Paredes, Project Coordinator Vanessa Figueira, Project Assistant Manoj Rijhwani, Data Collection Technician Mark Lindsay, Data Collection Technician Kenneth Dodds, Graphic Designer Dana Kelly, Graphic Designer

We Would Also Like To Recognize

EDD's Labor Market Information Division Staff:

Randy Robin, Research Analyst www.calmis.ca.gov

Employers:

The employers who contributed their valuable time to answer our occupational surveys.

Resources:

Employers, educators, union representatives and other resource people who were contacted because of their expertise in the occupation.

Appendix A: Previously Studied Occupations 1999-2003

Accountants & Auditors: 1999, 2002

Adjustment Clerks: 1997

Administrative Assistants: 1999, 2002

Administrative Services Managers: 2002

Assemblers: Electrical & Electronic Equipment:

1995, 2000

Assemblers & Fabricators-except Machine, Electrical, Electronic and Precision: 1999

Automotive Mechanics: 1996, 2001

Bill & Account Collectors: 1998, 2003

Biological, Agricultural & Food Technicians &

Technologists - except Health: 1995

Biological Scientists: 1995, 2002

Biotechnology Laboratory Assistants: 2002

Biotechnology Research Assistants: 1998

Bookkeeping, Accounting & Auditing Clerks - including Bookkeepers: 1995, 1999, 2002

Brokerage Clerks: 1998

Bus & Truck Mechanics & Diesel Engine

Specialists: 1996, 2003

Carpenters: 2000, 2003

Cashiers: 1999, 2002

Chemical Technicians & Technologists - except

Medical & Clinic: 1995

Child Care Workers: 1999

Civil Engineers: 2003

Claims Examiners - Property & Casualty

Insurance: 1997

Combined Food Preparation and Service Workers:

1999

Compliance Officers & Enforcement Inspectors -

except Construction: 1996

Computer Aided Audio/Visual Engineers: 1996

Computer Aided Design Technicians: 1997, 2001

Computer Animators: 1996

Computer Engineers: 1995, 1999, 2002

Computer Network Administrators &

Managers: 2000

Computer Network Technicians: 2001

Computer Operators: 1995

Computer Programmers, including Aides:

1997, 2000, 2003

Computer & Software Support Technicians: 2001

Computer Support Specialists: 1998, 2001

Cooks - Restaurant: 1995,1999, 2002

Correction Officers & Jailers: 1995

Customer Service Representatives: 2003

Database Administrators: 2000, 2003

Dental Assistants: 1996, 2000

Dental Hygienists: 2001

Desktop Publishing - Graphic Designer: 1997

(see also Graphic Designer)

Dispatchers - except Police, Fire &

Ambulance: 1995

■ Electrical and Electronic Engineering -

Technicians and Technologists: 1996, 1999, 2002

Electrical and Electronic Engineers: 1996, 2000,

2003

Electricians: 1995, 2000, 2003

Electronic Home Entertainment Equipment

Repairers: 1998

Electronic Semiconductor Processors: 1999, 2002

Emergency Medical Technicians - 1: 2002

Emergency Medical Technicians - 2: 2002

Emergency Medical Technicians - Paramedic: 2002

Employment Interviewers - Private or Public

Appendix A: Previously Studied Occupations 1999-2003

Employers: 1997, 2001

Engineering, Mathematical & Natural Sciences

Managers: 1998

Farm Equipment Operators: 1996

Financial Managers: 1999, 2002

Financial Planners: 1998

Firefighters: 2002

Food Preparation Workers: 1998

Food Service Managers: 2000

Gardeners, Groundskeepers - except Farm: 1995

General Managers & Top Executives: 2000

General Office Clerks: 1998

Graphic Designers: 2001

Guards & Watch Guards: 1998, 2002

Hand Packers & Packagers: 1999

Hazardous Waste Management Specialists: 1995

Heating, Air Conditioning & Refrigeration Mechanics and Installers: 1997, 2003

Home Health Aides: 1998, 2001

Hotel Desk Clerks: 1997, 2003

Human Resource Technician: 2002

Human Service Workers: 1995

■ Industrial Engineers - except Safety: 1996

Inspectors, Testers, and Graders - Precision: 1999

Instructional Aides: 1995, 2000

Integrated Circuit Fabricators/Operators: 1996

Integrated Circuit Layout Designers: 1996, 2001

Internet Server Designers & Administrators

(Webmasters): 1996, 2001

Janitors & Cleaners - except Maids & Housekeeping Cleaners: 1997, 2000, 2003

Laborers, Landscaping & Groundskeeping: 2000,

2003

LAN/WAN (Local / Wide Area Network)

Managers: 1995

Legal Secretaries: 2003

Librarians - Professional: 1996, 2003

Licensed Vocational Nurses: 1997, 2003

Lodging Managers: 2000

Machinists: 1997, 2003

Maids & Housekeeping Cleaners: 1998, 2002

Maintenance Repairers - General Utility: 2000

Marketing, Advertising, and Public Relations

Managers: 1996, 1999

Massage Therapists: 2003

Mechanical Engineers: 1998

Medical Assistants: 1996, 2000, 2003

Medical & Clinical Laboratory Technologists: 1995

Medical Records Technicians: 1997, 2001

Multimedia Specialists: 1998

Network Professionals: 2000, 2003

Nurse Aides: 1995, 1999, 2003

Occupational Therapists: 1997, 2001

Office Equipment Installers and Repairers: 1997

Order Clerks - Materials, Merchandise &

Service: 1997

Painters, Paperhangers - Construction &

Maintenance: 1995, 2000

Paralegal Personnel: 1998, 2003

Personnel, Training, and Labor Relations

Specialists: 1997

Pharmacy Technicians: 1996, 2002

Physical Therapists: 1997, 2001

Physical Therapy Aides: 1998, 2001

Physical Therapy Assistants: 1998, 2001

Appendix A: Previously Studied Occupations 1999-2003

Plumbers, Pipefitters, and Steamfitters: 1997,

2000, 2003

Police Patrol Officers: 1995, 2000, 2003

Production, Planning, and Expediting Clerks: 1999

Public Relations Specialists & Publicity

Writers: 1997, 2001

Purchasing Agents - except Wholesale, Retail &

Farm Products: 1999

Purchasing Managers: 1997, 1999

Quality Assurance Managers: 1997

Receptionists & Information Clerks: 1998, 2001

Recreation Workers: 1995

Registered Nurses: 1995, 1999, 2002

Respiratory Care Practitioners: 1995, 2001

Sales Agents & Placers - Insurance: 1998

Sales Agents, Selected Business Services: 2002

Sales Engineers: 1996

Salespersons - Retail (Except Vehicle Sales):

1998, 2001

Sales Representatives, Scientific and Related Products and Services - except Retail: 1996,

1999, 2001

Secretaries - except Legal & Medical: 1996, 1999

Secretaries, Medical: 1997

Sheet Metal Duct Installers: 2001

Social Workers: 1996

Software Engineers: 1996, 2002

Speech, Language Pathologists &

Audiologists: 2001

Stock Clerks - Sales Floor: 2000

Stock Clerks - Stockroom, Warehouse, Storage

Yard: 1998

Systems Analysts - Electronic Data Processing:

1998, 2002

Substance Abuse & Behavioral Disorder

Counselers: 2003

Teachers - Elementary School: 1997, 2000

Teachers - ESL (English as a Second

Language): 2002

Teachers, Preschool: 2000

Teachers, Secondary School: 1998, 2002

Teachers - Special Education: 2001

Technical Writers: 1999

Telemarketers, News and Street Vendors,

Telephone Solicitors, Door-to-Door Sales Workers

and Other Related Workers: 1999

Telephone & Cable Line Installers: 2001

Traffic, Shipping, and Receiving Clerks: 1999

Travel Agents: 1997

Truck Drivers, Light - including Delivery & Route

Workers: 1995, 1999, 2002

Vehicle Salespersons - Retail: 2000

Veterinary Assistants: 1997

W Waiters & Waitresses: 1998

Wholesale & Retail Buyers - except Farm

Products: 1996

Writers & Editors: 1998

Appendix B: Training Providers by Occupation

Bill and Account Collectors

American Business College International

Au Lac Institute
City University

Computer Training Consultants

De Anza College

East Side Union High School District Adult

Education

ElectroComp Institute Evergreen Valley College

Foothill College

Gavilan Community College

Golden Gate University – Silicon Valley

Heald Business College

Institute for Career Development

Mission College San Jose City College

Santa Clara County ROP – North

Sunnyvale-Cupertino Adult and Community

Education

University of California Extension, Santa Cruz

University of Phoenix West Valley College

Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Joint Apprenticeship of Northern

California

De Anza College

Evergreen Valley College

Carpenters

Carpenters Training Committee for Northern California

Civil Engineers

Evergreen Valley College San Jose State University

Stanford Center for Professional

Development Stanford University

Computer Programmers

Au Lac Institute

Bay Area ExecuTrain

City University

Computer Training Consultants

De Anza College

East Side Union High School District Adult

Education

Evergreen Valley College

Foothill College

Gavilan Community College

Mission College

N Square Corporation

Portnov Computer School

San Jose City College

Shin Shin Training Center

Silicon Valley Technical Institute

Stanford University

University of California Extension, Santa Cruz

University of Phoenix

West Valley College

Customer Service Representatives

Au Lac Institute

Institute for Business Performance

Database Administrators

City University

CompUSA Inc. Technical Training

Crossbow Communications

De Anza College

ElectroComp Institute

Foothill College

Hello Computers Training

Institute of Computer Technology

KudoNet

Mission College

New Horizons Computer Learning Center

San Jose City College

Shin Shin Training Center

Silicon Valley University

Software Technology Group

Stanford University

Appendix B: Training Providers by Occupation

University of California Extension, Santa Cruz Librarians University of Phoenix

Electrical Engineers

Cogswell Polytechnical College International Technological University San Jose State University Stanford Center for Professional Development Stanford University

Electrician

Santa Clara County Electrical JATC Institute for Business and Technology

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Institute for Business and Technology Pipe Trades Training Center Santa Clara County Electrical JATC San Jose City College University of California Extension, Santa Cruz

Hotel, Motel, and Resort Desk Clerks

Central County Occupational Center

Janitors and Cleaners, Except Maids and Housekeeping Cleaners

None available in Santa Clara County

Landscaping and Groundskeeping Workers

Central County Occupational Center

Legal Secretaries

Computer Training Consultants De Anza College West Valley College

San Jose State University

Licensed Practical and Licensed **Vocational Nurses**

Evergreen Valley College Mission College University of Phoenix

Machinists

De Anza College San Jose City College

Plumbers, Pipefitters, and Steamfitters

Pipe Trades Training Center

Police and Sheriff's Patrol Officers

De Anza College (Law Enforcement) Evergreen Valley College (Administration of Justice) Gavilan Community College (Administration of Justice) San Jose City College (Administration of San Jose State University (Administration of Justice) Santa Clara County ROP – North (Administration of Justice) University of Phoenix (Administration of Justice)

Massage Therapists

Body Therapy Center Bryman College De Anza College Institute for Business and Technology Just for Your Health College of Massage Milpitas Electrolysis College Silicon Valley College Trinity College

Appendix B: Training Providers by Occupation

Medical Assistants

American Business College International Bryman College Center for Employment Training Central County Occupational Center De Anza College East Side Union High School District Adult Education Gavilan Community College Heald Business College Institute for Business and Technology Silicon Valley College West Valley College Westmed Training

Network and Computer Systems

Administrators American Business College International **Amfasoft** Au Lac Institute Bay Area ExecuTrain Brooks College – Silicon Valley City University Computer Training Consultants Crossbow Communications De Anza College East Side Union High School District Adult Education ElectroComp Institute Evergreen Valley College Foothill College Gavilan Community College Golden Gate University – Silicon Valley Heald Business College Hello Computers Training Institute for Business and Technology Institute for Business Performance Institute of Computer Technology International Technological University KudoNet Mission College N Square Corporation The National Hispanic University

San Jose State Professional Development San Jose State University Santa Clara County ROP – North Silicon Valley College Silicon Valley Technical Institute Silicon Valley University Software Technology Group Stanford Center for Professional Development Stanford University University of California Extension, Santa Cruz University of Phoenix West Valley College

Nursing Aides, Orderlies, and Attendents

Evergreen Valley College Gavilan Community College San Jose State University Santa Clara County ROP – North

Paralegals and Legal Assistants

De Anza College Evergreen Valley College Lincoln Law School of San Jose Saratoga University School of Law West Valley College

Substance Abuse and Behavioral **Disorder Counselors**

City University Evergreen Valley College Foothill College Institute of Transpersonal Psychology John F. Kennedy University National University Pacific Graduate School of Psychology San Jose Christian College San Jose City College San Jose State University West Valley College

New Horizons Computer Learning Center

National University

Portnov Computer School San Jose City College

American Business College International

650 North King Road San Jose, CA 95133

Phone: 408-258-0800 Fax: 408-258-8553

www.americanbci.com

Amfasoft

3028A Scott Boulevard Santa Clara, CA 95054

Phone: 408-919-0181

www.amfasoft.com

Au Lac Institute

2268 Quimby Road, Ste. E San Jose, CA 95135

Phone: 408-239-5520 Fax: 408-239-5521

www.aulacinstitute.com

Automotive Joint Apprenticeship of Northern California

3777 Stevens Creek Boulevard Santa Clara, CA 95051

Phone: 408-244-4816 Fax: 408-244-5587

www.autoapprenticeship.com

Bay Area ExecuTrain

(formerly Cte Computer Training Centers) 2005 De La Cruz Boulevard., Ste. 200 Santa Clara, CA 95050

Phone: (408)-844-8700 Fax: (800) 211-4111

www.bayareaexecutrain.com

Body Therapy Center

368 California Avenue Palo Alto, CA 94306

Phone: 650-328-9400 Fax: 650-328-9478

www.bodymindspirit.net

Brooks College - Silicon Valley

1120 Kifer Road Sunnyvale, CA 94086

Phone: 408-719-9209 Fax: 408-328-5790

www.brooks-sv.com

Bryman College

1245 South Winchester Boulevard, Ste. 102 San Jose, CA 95128

Phone: 408-246-4171 Fax: 408-557-9855

www.bryman-college.com

Carpenters Training Committee for Northern California

485 Woodview Drive Morgan Hill, CA 95037

Phone: 408-778-1552 Fax: 408-778-9327

www.carpenter-trng-ncal.org

Center for Employment Training

701 Vine Street San Jose, CA 95110

Phone: (408) 287-7924

www.cetweb.org

Central County Occupational Center

(a unit of the Metropolitan Education District) 760 Hillsdale Avenue San Jose, CA 95136

Phone: 408-723-6400 Fax: 408-266-6531

www.metroed.net

City University

675 North First Street, Ste. 100 San Jose, CA 95112

Phone: 800-426-5596 Fax: 408-289-1272

www.cityu.edu

Cogswell Polytechnical College

1175 Bordeux Drive Sunnyvale, CA 94089

Phone: 800-264-7955 Fax: 408-747-0794

www.cogswell.edu

CompUSA Inc. Technology Training

634 Blossom Hill Road San Jose, CA 95123

Phone: 408-363-7030 Fax: 408-363-7055

www.compusa.com/training

Computer Training Consultants

1245 South Winchester Boulevard, Ste. 108 San Jose, CA 95128

Phone: 800-300-TRAIN Fax: 408-380-0603

www.comptraining.com

Crossbow Communications

1800 Hartog Drive San Jose, CA 95131

Phone: (408) 392-0016 Fax: (408) 392-0099

www.crossbowcom.com

De Anza College

21250 Stevens Creek Boulevard Cupertino, CA 95014

Phone: 408-864-5678

www.deanza.edu

East Side Union High School District Adult Education

Independence Adult Center 625 Educational Park Drive San Jose, CA 95133 Phone: 408-928-9300 Fax: 408-928-9309

*Multiple sites in San Jose; call school for

additional locations

http://aenet.esuhsd.org

ElectroComp Institute

510 Parrott Street, Ste. 2 San Jose, CA 95112

Phone: (408) 999-0446 Fax: (408) 999-0231

www.electrocomp.us

ESO Women's Refugee Resource Center

1445 Oakland Road San Jose, CA 95112

Phone: (408) 971-0888 Fax: (408) 971-9140

www.esoi.org

Evergreen Valley College

3095 Yerba Buena Road San Jose, CA 95135

Phone: 408-274-7900 Fax: 408-223-9291

www.evc.edu

Foothill College

12345 El Monte Road Los Altos Hills, CA 94022

Phone: 650-949-7777 Fax: 650-949-7048

www.foothill.edu

Gavilan Community College

Gilroy Campus 5055 Santa Teresa Boulevard Gilroy, CA 95020

Phone: 408-848-4800 Fax: 408-848-4801

Morgan Hill Campus 17060 Monterey Road Morgan Hill, CA 95037 Phone: 408-782-2873

www.gavilan.edu

Golden Gate University – Silicon Valley

50 Airport Parkway, Ste. 150 San Jose, CA 95110

Phone: 408-573-7300 Fax: 408-573-0890

www.ggu.edu

Heald Business College

341 Great Mall Parkway Milpitas, CA 95035

Phone: (408) 934-4900 Fax: (408) 934-7777

www.heald.edu

Hello Computers Training

2314A Walsh Avenue Santa Clara, CA 95050

Phone: (408) 496-0801 Fax: (408) 496-0804

www.hellocomputers.com

Institute for Business and Technology

2550 Scott Boulevard Santa Clara, CA 95050

Phone: (800) 548-8545

(408) 727-1060

Fax: (408) 980-9548

www.ibttech.com

Institute for Business Performance

600 South Bascom Avenue, Ste. A San Jose, CA 95128

Phone: 408-283-3600 Fax: 408-282-0811

www.ibptraining.com

Institute for Career Development

(a division of Goodwill - Santa Clara County) 1080 North Seventh Street

San Jose, CA 95112

Phone: 408-998-5787 x223 Fax: 408-283-9093

www.goodwillsanjose,com

Institute of Computer Technology

589 West Fremont Avenue Sunnyvale, CA 94087

Phone: 408-736-4291 Fax: 408-735-6059

www.ict.org

Institute of Transpersonal Psychology

744 San Antonio Road Palo Alto, CA 94303

Phone: 650-493-4430 Fax: 650-493-6835

www.itp.edu

International Technological University

1650 Warburton Avenue Santa Clara, CA 95050

Phone: 408-556-9010 Fax: 408-556-9212

www.itu.edu

John F. Kennedy University

1 West Campbell Avenue, Bldg. A Campbell, CA 95008

Phone: 408-874-7700 Fax: 408-874-7777

www.jfku.edu

Just for Your Health College of Massage

2075 Lincoln Avenue, Ste. E San Jose, CA 95125

Phone: 408-723-2131 Fax: 408-723-7389

www.just4yourhealth.com

KudoNet

270 South Java Drive Sunnyvale, CA 94089

Phone: 408-734-1261 x205 Fax: 408-744-1193

www.kudonet.com

Lincoln Law School of San Jose

One North First Street San Jose, CA 95113

Phone: 408-977-7227 Fax: 408-977-7228

www.lincolnlawsj.edu

Milpitas Electrolysis College

500 East Calaveras Boulevard, Ste. 333 Milpitas, CA 95035

Phone: 408-946-9522 Fax: 408-262-7049

Mission College

300 Mission College Boulevard Santa Clara, CA 95054

Phone: 408-988-2200 Fax: 408-980-8980

www.missioncollege.org

N Square Corporation

2094 Walsh Avenue, Ste. B1 Santa Clara, CA 95050

Phone: 408-654-0500 Fax: 408-654-0520

www.nsquare.com

The National Hispanic University

14271 Story Road San Jose, CA 95127

Phone: 408-254-6900 Fax: 408-254-1369

www.nhu.edu

National University

San Jose Academic Center 3031 Tisch Way 100 Plaza East San Jose, CA 95128

Phone: 408-236-1100 Fax: 408-236-1198

www.nu.edu

New Horizons Computer Learning Center

3130 De La Cruz Boulevard, Ste. 214 Santa Clara, CA 95054

Phone: 800-364-9368 Fax: 408-436-1273

www.newhorizons.com

Pacific Graduate School of Psychology

940 East Meadow Drive Palo Alto, CA 94303

Phone: 800-818-6136 Fax: 650-493-6147

www.pgsp.edu

Pipe Trades Training Center

780 Commercial Street San Jose, CA 95112

Phone: 408-453-6330 Fax: 408-453-0104

www.pipetradecareer.org

Portnov Computer School

1580 West El Camino Real, Ste. 12 Mountain View, CA 94040

Phone: 650-961-2044 Fax: 650-210-9485

www.portnov.com

San Jose Christian College

790 South 12th Street San Jose, CA 95112

Phone: 408-278-4300 800-355-7522 Fax: 408-293-7352

www.sjchristian.edu

San Jose City College

2100 Moorpark Avenue San Jose, CA 95128-2799

Phone: 408-298-2181 Fax: 408-298-1935

www.sjcc.edu

San Jose State University

One Washington Square San Jose, CA 95192

Phone (408) 924-1000 Fax: (408) 924-2050

www.sjsu.edu

San Jose State University Professional Development

2160 Lundy Avenue, Ste. 250 San Jose, CA 95131

Phone: 408-985-7578 Fax: 408-519-0138

www.profdev.sjsu.edu

Santa Clara County Regional Occupational Program - North

575 W. Fremont Ave Sunnyvale, CA 94087

Phone: 408-733-0881 Fax: 408-733-0894

www.ncrop.sccoe.net

Santa Clara University

500 El Camino Real Santa Clara, CA 95053

Phone: 408-554-4000

www.scu.edu

Saratoga University School of Law

780 Blairwood Court San Jose, CA 95120

Phone: 408-927-6760

www.saratogau.edu

Santa Clara County Electrical JATC

908 Bern Court San Jose, CA 95112

Phone: 408-453-1022 Fax: 408-452-1784

www.ejatc332.org

Shin Shin Training Center

820 East El Camino Real #1 Mountain View, CA 94040

Phone: 650-965-3780 Fax: 650-965-3092

www.sshin.com

Silicon Valley College

6201 San Ignacio Avenue San Jose, CA 95119

Phone: 408-360-0840 Fax: 408-360-0848

www.siliconvalley.edu

Silicon Valley Technical Institute

1762 Technology Drive, Ste. 227 San Jose, CA 95110

Phone: 408-573-0100 Fax: 408-573-0200

www.svtii.com

Silicon Valley University

3590 North First Street, Ste. 320 San Jose, CA 95134

Phone: 408-435-8989 Fax: 408-955-0887

www.svuca.edu

Software Technology Group

3211 Scott Boulevard Santa Clara, CA 95054

Phone: 408-970-9100 x15 Fax: 408-970-9050

www.stgonline.com

Stanford Center for Professional Development

496 Lomita Mall, Durand Building Stanford, CA 94305-4036

Phone: 650-725-3016 Fax: 650-725-2868

scpd.stanford.edu

Stanford University

Stanford, CA 94309

Phone: 650-723-2560

www.stanford.edu

Sunnyvale-Cupertino Adult & Community Education

(Fremont Union High School District) 591 West Fremont Avenue Sunnyvale, CA 94087

Phone: 408-522-2700 Fax: 408-737-9926

www.ace.fuhsd.org

TechSkills ,LLC

3031 Tisch Way, Ste. 1 San Jose, CA 95128

Phone: 408-983-0310 Fax: 408-985-5821

www.techskills.com

Trinity College

25 North First Street, Ste. 460 San Jose, CA 95112

Phone: 408-287-5100 Fax: 408-287-3609

www.trinitycollege.com

University of California, Santa Cruz Extension

Cupertino Campus 10420 Bubb Road Cupertino, CA 95014 Phone (408) 861-3700

Sunnyvale Campus

Moffett Business Park 1180 Bordeaux Drive Sunnyvale, CA 94089 Phone (408) 752-1300

www.ucsc-extension.edu

University of Phoenix

3590 North First Street San Jose, CA 95134

Phone: 800-640-0622

www.phoenix.edu

West Valley College

14000 Fruitvale Avenue Saratoga, CA 95070-5698

Phone: 408-741-2000 Fax: 408-867-5033

www.westvalley.edu

WestMed Training

5300 Stevens Creek Boulevard, Ste. 200 San Jose, CA 95129

Phone: 408-977-0723 Fax: 408-977-1326

www.westmedtraining.com

Occupations With the Greatest Job Growth (1)

(Sorted by Numerical Change)

Santa Clara County 2001–2008

Released December 2003

| | | Annual Average Employment | | Employment Change | |
|----------|------------------------------------------------|------------------------------|--------|-------------------|---------|
| SOC Code | Occupation (Definitions) | 2001 (2) | 2008 | Number | Percent |
| 15-1032 | Computer Software Engineers, Systems Software | 22,960 | 30,940 | 7,980 | 34.8 |
| 15-1031 | Computer Software Engineers, Applications | 20,290 | 28,230 | 7,940 | 39.1 |
| 15-1041 | Computer Support Specialists | 10,930 | 15,810 | 4,880 | 44.6 |
| 35-3021 | Comb Food Prep & Serving Wrkrs, Incl Fast Food | 16,240 | 19,550 | 3,310 | 20.4 |
| 41-2031 | Retail Salespersons | 23,880 | 26,510 | 2,630 | 11.0 |
| 41-2011 | Cashiers | 19,800 | 22,060 | 2,260 | 11.4 |
| 15-1071 | Network & Computer Systems Administrators | 4,930 | 7,070 | 2,140 | 43.4 |
| 37-2011 | Janitors & Clean, Ex Maids & Housekeep Cleaner | 15,820 | 17,730 | 1,910 | 12.1 |
| 29-1111 | Registered Nurses | 10,880 | 12,590 | 1,710 | 15.7 |
| 11-3021 | Computer & Information Systems Managers | 7,360 | 8,750 | 1,390 | 18.9 |
| 15-1051 | Computer Systems Analysts | 6,080 | 7,440 | 1,360 | 22.4 |
| 43-4051 | Customer Service Representatives | 13,290 | 14,640 | 1,350 | 10.2 |
| 35-3031 | Waiters & Waitresses | 10,400 | 11,710 | 1,310 | 12.6 |
| 15-1081 | Network Systems & Data Communications Analysts | 3,770 | 5,070 | 1,300 | 34.5 |
| 43-9061 | Office Clerks, General | 19,810 | 21,080 | 1,270 | 6.4 |
| 37-3011 | Landscaping & Groundskeeping Workers | 6,000 | 6,940 | 940 | 15.7 |
| 11-1021 | General & Operations Managers | 16,930 | 17,850 | 920 | 5.4 |
| 23-1011 | Lawyers | 4,420 | 5,300 | 880 | 19.9 |
| 35-2014 | Cooks, Restaurant | 5,500 | 6,370 | 870 | 15.8 |
| 37-2012 | Maids & Housekeeping Cleaners | 5,000 | 5,860 | 860 | 17.2 |
| 15-1061 | Database Administrators | 3,080 | 3,910 | 830 | 26.9 |
| 25-9041 | Teacher Assistants | 7,460 | 8,280 | 820 | 11.0 |

Occupations With the Greatest Job Growth (1) - Continued

(Sorted by Numerical Change)

Santa Clara County 2001–2008

| 53-7062 | Laborers & Freight, Stock, & Material Movers, | 14,550 | 15,310 | 760 | 5.2 |
|---------|-----------------------------------------------|--------|--------|-----|------|
| 41-1011 | First-Line Sups/Mgrs of Retail Sales Workers | 6,950 | 7,690 | 740 | 10.6 |
| 13-2011 | Accountants & Auditors | 9,490 | 10,180 | 690 | 7.3 |
| 11-2022 | Sales Managers | 4,400 | 5,030 | 630 | 14.3 |
| 33-9032 | Security Guards | 8,790 | 9,410 | 620 | 7.1 |
| 47-2031 | Carpenters | 7,060 | 7,640 | 580 | 8.2 |
| 43-4171 | Receptionists & Information Clerks | 7,060 | 7,630 | 570 | 8.1 |
| 49-3023 | Automotive Service Technicians & Mechanics | 4,030 | 4,570 | 540 | 13.4 |
| 11-3031 | Financial Managers | 5,960 | 6,490 | 530 | 8.9 |
| 31-9092 | Medical Assistants | 2,190 | 2,710 | 520 | 23.7 |
| 47-2111 | Electricians | 4,920 | 5,430 | 510 | 10.4 |
| 53-7064 | Packers & Packagers, Hand | 5,610 | 6,120 | 510 | 9.1 |
| 11-2021 | Marketing Managers | 4,430 | 4,930 | 500 | 11.3 |
| 33-3051 | Police & Sheriff's Patrol Officers | 3,230 | 3,720 | 490 | 15.2 |
| 35-2021 | Food Preparation Workers | 5,030 | 5,520 | 490 | 9.7 |
| 31-1012 | Nursing Aides, Orderlies, & Attendants | 3,440 | 3,920 | 480 | 14.0 |
| 23-2011 | Paralegals & Legal Assistants | 2,210 | 2,680 | 470 | 21.3 |
| 25-2011 | Preschool Teachers, Except Special Education | 3,720 | 4,190 | 470 | 12.6 |
| 31-9091 | Dental Assistants | 1,990 | 2,460 | 470 | 23.6 |
| 47-2061 | Construction Laborers | 5,280 | 5,750 | 470 | 8.9 |
| 39-9011 | Child Care Workers | 2,710 | 3,170 | 460 | 17.0 |
| 39-9021 | Personal & Home Care Aides | 1,350 | 1,800 | 450 | 33.3 |
| 43-6011 | Executive Secretaries & Administrative Assist | 16,620 | 17,010 | 390 | 2.3 |
| 53-3033 | Truck Drivers, Light or Delivery Services | 6,130 | 6,510 | 380 | 6.2 |
| 13-1111 | Management Analysts | 3,120 | 3,440 | 320 | 10.3 |
| 29-2021 | Dental Hygienists | 1,380 | 1,700 | 320 | 23.2 |
| 31-1011 | Home Health Aides | 1,090 | 1,410 | 320 | 29.4 |
| 41-2021 | Counter & Rental Clerks | 2,260 | 2,570 | 310 | 13.7 |
| | | | | | |

Occupations With the Fastest Job Growth (1)

(Sorted by Percent Change)

Santa Clara County 2001–2008

Released December 2003

| SOC Code | Occupation (Definitions) | Annual Average Employment | | Employment Change | | |
|----------|--------------------------------------------------|------------------------------|--------|-------------------|---------|--|
| | | 2001 (2) | 2008 | Number | Percent | |
| 15-1041 | Computer Support Specialists | 10,930 | 15,810 | 4,880 | 44.1 | |
| 15-1071 | Network & Computer Systems Administrators | 4,930 | 7,070 | 2,140 | 43 | |
| 15-1031 | Computer Software Engineers, Applications | 20,290 | 28,230 | 7,940 | 39. | |
| 15-1032 | Computer Software Engineers, Systems Software | 22,960 | 30,940 | 7,980 | 34.6 | |
| 21-1093 | Social & Human Service Assistants | 810 | 1,090 | 280 | 34.1 | |
| 15-1081 | Network Systems & Data Communications Analysts | 3,770 | 5,070 | 1,300 | 34. | |
| 39-9021 | Personal & Home Care Aides | 1,350 | 1,800 | 450 | 33.: | |
| 31-1011 | Home Health Aides | 1,090 | 1,410 | 320 | 29. | |
| 29-2071 | Medical Records & Health Information Technicians | 470 | 600 | 130 | 27. | |
| 29-2052 | Pharmacy Technicians | 1,030 | 1,310 | 280 | 27.: | |
| 15-1061 | Database Administrators | 3,080 | 3,910 | 830 | 26. | |
| 29-1051 | Pharmacists | 1,210 | 1,510 | 300 | 24.6 | |
| 31-9092 | Medical Assistants | 2,190 | 2,710 | 520 | 23. | |
| 31-9091 | Dental Assistants | 1,990 | 2,460 | 470 | 23.1 | |
| 29-1126 | Respiratory Therapists | 640 | 790 | 150 | 23. | |
| 29-2021 | Dental Hygienists | 1,380 | 1,700 | 320 | 23.: | |
| 15-1051 | Computer Systems Analysts | 6,080 | 7,440 | 1,360 | 22 | |
| 31-9095 | Pharmacy Aides | 490 | 600 | 110 | 22 | |
| 43-4081 | Hotel, Motel, & Resort Desk Clerks | 1,140 | 1,390 | 250 | 21. | |
| 23-2011 | Paralegals & Legal Assistants | 2,210 | 2,680 | 470 | 21.: | |
| 35-3021 | Comb Food Prep & Serving Wrkrs, Incl Fast Food | 16,240 | 19,550 | 3,310 | 20 | |
| 23-1011 | Lawyers | 4,420 | 5,300 | 880 | 19. | |

Occupations With the Fastest Job Growth (1) - Continued

(Sorted by Percent Change)

Santa Clara County 2001–2008

| 27-2042 | Musicians & Singers | 570 | 680 | 110 | 19.3 |
|---------|------------------------------------------------------|--------|--------|-------|------|
| 27-3031 | Public Relations Specialists | 1,570 | 1,870 | 300 | 19. |
| 11-2031 | Public Relations Managers | 790 | 940 | 150 | 19.1 |
| 11-3021 | Computer & Information Systems Managers | 7,360 | 8,750 | 1,390 | 18. |
| 21-1021 | Child, Family, & School Social Workers | 600 | 710 | 110 | 18.3 |
| 21-2011 | Clergy | 550 | 650 | 100 | 18.: |
| 29-1123 | Physical Therapists | 500 | 590 | 90 | 18.1 |
| 11-9151 | Social & Community Service Managers | 1,340 | 1,580 | 240 | 17. |
| 19-1021 | Biochemists & Biophysicists | 620 | 730 | 110 | 17. |
| 11-2011 | Advertising & Promotions Managers | 1,590 | 1,870 | 280 | 17.1 |
| 39-2021 | Nonfarm Animal Caretakers | 400 | 470 | 70 | 17.: |
| 37-2012 | Maids & Housekeeping Cleaners | 5,000 | 5,860 | 860 | 17.: |
| 39-9011 | Child Care Workers | 2,710 | 3,170 | 460 | 17.1 |
| 21-1022 | Medical & Public Health Social Workers | 430 | 500 | 70 | 16.3 |
| 25-2041 | Special Ed Teachers, Preschl, Kindergarten, Elmty Ed | 1,050 | 1,220 | 170 | 16.: |
| 25-1194 | Vocational Education Teachers, Postsecondary | 930 | 1,080 | 150 | 16. |
| 11-9111 | Medical & Health Services Managers | 870 | 1,010 | 140 | 16. |
| 19-4021 | Biological Technicians | 750 | 870 | 120 | 16.1 |
| 25-1071 | Health Specialties Teachers, Postsecondary | 630 | 730 | 100 | 15. |
| 35-2014 | Cooks, Restaurant | 5,500 | 6,370 | 870 | 15. |
| 53-6021 | Parking Lot Attendants | 570 | 660 | 90 | 15. |
| 29-1111 | Registered Nurses | 10,880 | 12,590 | 1,710 | 15. |
| 37-3011 | Landscaping & Groundskeeping Workers | 6,000 | 6,940 | 940 | 15. |
| 21-1012 | Educational, Vocational, & School Counselors | 1,690 | 1,950 | 260 | 15 |
| 25-1191 | Graduate Teaching Assistants | 850 | 980 | 130 | 15.3 |
| 33-3051 | Police & Sheriff's Patrol Officers | 3,230 | 3,720 | 490 | 15.: |
| 25-1122 | Communications Teachers, Postsecondary | 460 | 530 | 70 | 15.: |
| 25-1011 | Business Teachers, Postsecondary | 400 | 460 | 60 | 15.1 |

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